Fire Commissioner's Statistical Report

1984

Alberta

86-05698/

Fire Commissioner's Statistical Report

1984

ALBERTA LABOUR
Mailing Address
10808 - 99 Avenue
Edmonton, Alberta
T5K 0G2

Enquiries
Telephone (403) 427-8392

Additional copies of this report may be obtained from:
Fire Prevention Branch
Alberta Labour
Room 701, 10808 - 99 Avenue
Edmonton, Alberta
T5K 0G2

ISSN 0822-3343
G S S -11-86-2-A-1.275M

Table of Contents

INTRODUCTION

65th Statistical Report of the Fire Commissioner 3

SECTION ONE – ALBERTA FIRE CASUALTIES

Fire Deaths 1975-1984 9
Deaths Involving Fire 1975-1984 9
Death Rates 10
Fire Deaths by Geographic Location 11
Casualties by Age and Sex 12
Conditions of Casualties 12
Casualties by Month 13
Casualties by Time Period 13
Fire Deaths by Major Property Classifications 14
Injuries by Major Property Classifications 16
Fire Deaths by Act or Omission 18
Injuries by Act or Omission 20
Casualties in Residential Properties 22

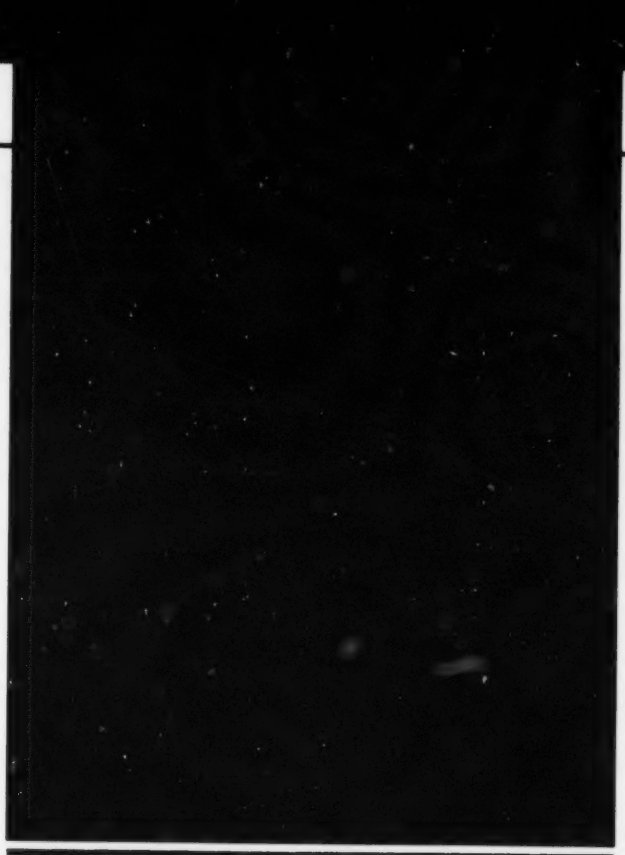
SECTION TWO – ALBERTA FIRE LOSS INFORMATION

Fires and Losses, 1975-1984 25
Fire Rates and Per Capita Losses, 1975-1984 26
Average Loss Per Fire, 1975-1984 26
Fire Losses Related to Economic Indices, 1975-1984 27
Average Number of Fires by Month, 1975-1984 28
Average Fire Loss by Month, 1975-1984 28
Average Number of Fires by Day of Week, 1975-1984 29
Average Fire Loss by Day of Week, 1975-1984 29
Average Number of Fires by Hour of Day, 1975-1984 30
Average Fire Loss by Hour of Day, 1975-1984 30
Fires by Loss Category, 1984 31
1984 Large Loss Fires ($500,000 and over) 31
Fires by Major Property Classifications, 1984 32
Property Losses Related to Area of Origin, 1984 34
Property Losses Related to Act or Omission, 1984 35
Property Losses Related to Source of Ignition, 1984 36
Property Losses Related to Fuel or Energy, 1984 37
Property Losses Related to Material First Ignited, 1984 38
Property Losses Related to Initial Detection, 1984 39
Fires By Method of Fire Control and Extinguishment, 1984 40
Municipal Fire Loss Statistics, 1984, 1975-84 42

SECTION THREE – GLOSSARY OF TERMINOLOGY

Glossary 53

DIRECTORY OF BRANCH OFFICES 55



Introduction

65th Statistical Report of the Fire Commissioner

The Fire Prevention Branch strives to minimize the number of fires, the number of injuries and deaths caused by fires and the amount of fire-related property damage in Alberta.

Branch personnel inspect buildings and facilities in an effort to ensure that they meet acceptable levels of fire safety. Staff conduct detailed investigations of fires throughout the province and assist police and fire departments engaged in fire investigations. The branch gives high priority to the investigation of fire deaths, arson fires and fires involving large property loss. Staff members develop and present training and information programs for municipal and industrial fire departments in Alberta. In addition to providing technical assistance to municipalities on fire prevention and protection, staff also conduct fire-safety education programs for the general public and collect and disseminate statistical information on fires.

The Alberta Fire Code was adopted on May 2, 1984 and became effective August 1, 1984. A first for the province, the Alberta Fire Code provides uniform fire safety regulations for all municipalities. Meetings and seminars were held throughout the province to familiarize local authorities with the contents of the code.

The Fire Prevention Council, which was established in 1983, effectively carried out its responsibilities as an appeal body and as an advisory body to the minister. In addition to its major undertaking of reviewing submissions for the fire code, the council heard appeals against 21 orders.

Providing programs aimed at fire prevention is a major activity of the branch. Staff offer various services directed to this end, including public education programs dealing with the hazards of fire, sources of ignition and methods of preparing for a fire. Staff also provide inspection services from regional offices throughout Alberta. The branch places special emphasis on the inspection of assembly, institutional and residential buildings in smaller centres where the fire prevention resources of the fire departments are limited. The table on page 5 indicates that the number of inspections conducted by branch personnel increased by 12 percent over the previous year. Apartments, hotels and motels were given high priority during the year in order to ensure that fire alarm systems and detection devices were functioning as intended.

A committee established at the request of the Northern Alberta Development Council recommended that a two year pilot project be undertaken in northern Alberta in an effort to reduce the loss of life and property from fires in the area.

Fire Commissioner - W.D. MacKay

The project now being implemented has two thrusts. A school fire safety education program is being introduced throughout northern Alberta with the cooperation of the Northlands School Division. The second phase of the project involves the communities of Desmarais/Wabasca and Calling Lake. Resident fire safety consultants have been placed in these communities in an effort to improve fire safety through an inspection and public education program. Training, support and supervision will be provided to the resident consultants by Fire Prevention staff. The benefits to northern Alberta will be evaluated as the project proceeds.

A report based on an Alberta investigation of car fires was compiled and published by the branch. The report has created a great deal of interest in the subject of vehicle fires and copies have been distributed widely throughout North America. The report was presented at the International Association of Arson Investigators' annual meeting held in Vancouver in March, 1985.

A fire prevention education program was conducted at 47 schools with 3,695 students from grades four, five and six in attendance. In addition, approximately 30,000 people in 11 shopping malls and at two major fairs, saw an eight-panel display which promoted fire prevention and planning ways and means of surviving a fire.

Regional fire prevention committees made up of fire department representatives continue to meet regularly with branch staff to discuss concerns

about fire prevention and inspection programs. Of particular significance is the increased interest in fire prevention at the municipal level generated through these organizations.

Each year police and fire officials throughout the province subject a number of fire losses to detailed examination. This type of investigation is usually carried out when a death occurs as a result of a fire, when arson is suspected, when the cause of a fire is not known or when a major fire loss occurs. During 1984-85, 902 of these detailed investigations took place, and Fire Prevention staff investigators were called upon to assist in 286. Included were 30 fatal fires causing 38 deaths. The investigations conducted during the year revealed 649 arson fires, a reduction of 17 percent from the previous year. The reduction in the number of investigations conducted by the branch was due, in part, to budget restrictions and the general downsizing policy of the government.

Another major activity of the branch is the training of municipal and industrial fire department personnel. In order to make the most effective use of the Alberta Fire Training School at Vermilion, the branch continues to emphasize localized training by the various fire departments. The school provides the fire departments with all course material and training aids, and the local municipality provides the instructors. Evaluations are conducted by branch staff, and each successful candidate receives a certificate issued by the school. This arrangement whereby training takes place in the municipalities releases the facilities and training aids at Vermilion for the more specialized training programs. The number of persons participating in courses sponsored by the Alberta Fire Training School increased by 37 percent during the year.

As an aid to interested parties, the branch presented two special one-day seminars covering the subjects of breathing apparatus and fire extinguishers. Attendance at the seminars was 128. This type of presentation generates a great deal of local interest and increases the demand for further fire safety education. The table on page 5 provides additional information on the branch's training programs.

Comparative Statistical Summary
for the three years ending March 31, 1983, 1984 and 1985

	1982-83 NO.	1983-84 NO.	1984-85 NO.
A. Fire Prevention			
Building fire inspections conducted	2,204	2,624	2,930
– recommendations to correct hazards issued	6,401	8,028	10,654
– orders to remedy conditions issued	4	3	16
Plans examined	588	595	455
Meetings and lectures conducted	1,276	1,151	1,244
– attendance	25,831	16,908	12,798
B. Fire Investigation			
Investigations conducted by Branch	420	318	286
Investigations by other agencies	1,079	774	616
Total	**1,499**	**1,092**	**902**
Causes of Fires Investigated			
– arson	1,126	780	649
– accidental or unknown	373	298	251
– under investigation	–	14	2
Total	**1,499**	**1,092**	**902**
C. Fire Service Personnel Training		**ATTENDANCE**	
Alberta Fire Training School Municipal Training Programs			
Course Title (Duration 44 hrs.)			
Part I Firefighter	132	146	146
Part II Firefighter	143	90	113
Part III Firefighter	88	60	48
Part IV Firefighter	56	77	41
Part V Firefighter	–	19	38*
Part VI Firefighter	–	22	31*
Pump Operator "A"	38	36	109
Pump Operator "B'	31	13	11
Fire Prevention for the Firefighter	–	21	19
Vehicle Extrication & Trench Rescue	–	–	20**
Fire Officer C1, Building Construction	–	7	16
Fire Officer C2, Leadership	51	6	11
Fire Officer C3, Pre-fire Planning	20	13	14
Fire Officer C4, Fire Suppression and Safety	20	12	8
Fire Officer C5, Strategy and Tactics (Theory)	–	16	31*
Fire Officer C7, Fire Investigation	45	35	21
Fire Officer C8, Fire Prevention – Fire Protection Equipment	–	–	14**
Fire Officer C9, Fire Prevention	–	–	6**
Fire Prevention Officer DA, Building Codes & Standards	–	–	18**
Fire Prevention Officer DB, Alberta Fire Code	–	–	17**
Fire Prevention Officer D1, Water Supply	11	–	7
Fire Prevention Officer D2, Standpipe and Sprinkler Systems	–	14	8*
Fire Service Instructor E1	19	12	18
Total Municipal Fire Department Personnel Attending A.F.T.S.	**654**	**599**	**765**

* These courses were offered for the first time in 1983/84

** These courses were offered for the first time in 1984/85

Comparative Statistical Summary

for the three years ending March 31, 1983, 1984 and 1985

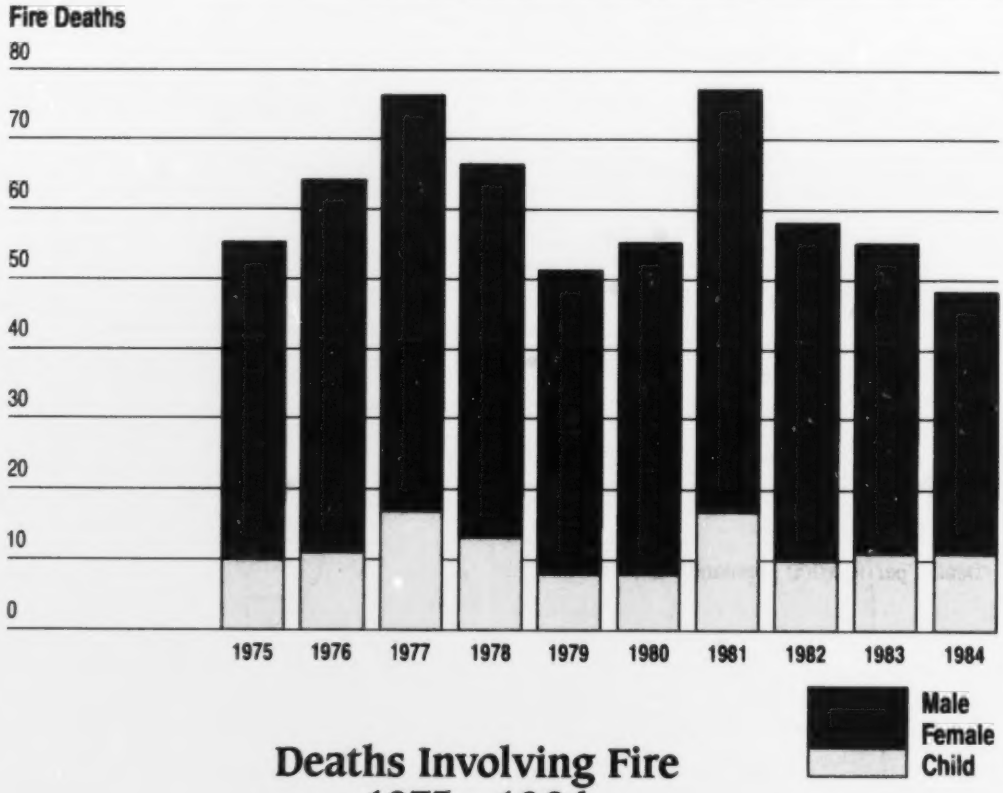
	1982-83 NO.	1983-84 NO.	1984-85 NO.
C. Fire Service Personnel Training (Cont.)		ATTENDANCE	
Extension Courses – Municipal Presentation			
Course Title (Duration 44 hrs.)			
Part I Firefighter	286	339	295
Part II Firefighter	–	–	79**
Fire Prevention for the Firefighter	50	45	35
Fire Officer C2, Leadership	–	–	14**
Fire Officer C7, Fire Investigation	–	49	22
Fire Service Instructor E1	–	–	14**
Personnel Attending A.F.T.S. Sponsored Extension and Local Courses	**336**	**433**	**459**
Total Municipal Fire Department Personnel	**990**	**1,032**	**1,224**
Industrial Programs			
Course Title (Duration as indicated)			
Part I Industrial Firefighter (16 hrs.)	61	88	181
Part IA Industrial Firefighter (8 hrs.)	64	99	144
Part II Industrial Firefighter (16 hrs.)	55	98	166
Part III Industrial Firefighter (16 hrs.)	–	38	134*
Aircraft Crash/Fire Response – Dry Chemical	–	12	12*
Total Industrial Fire Department Personnel	**192**	**323**	**637**
Grand Total Attendance at A.F.T.S. Sponsored Courses	**1,182**	**1,355**	**1,861**
One-day Seminars	**111**	**185**	**128**
Two-day Seminars	–	**23**	–

* These courses were offered for the first time in 1983/84
** These courses were offered for the first time in 1984/85

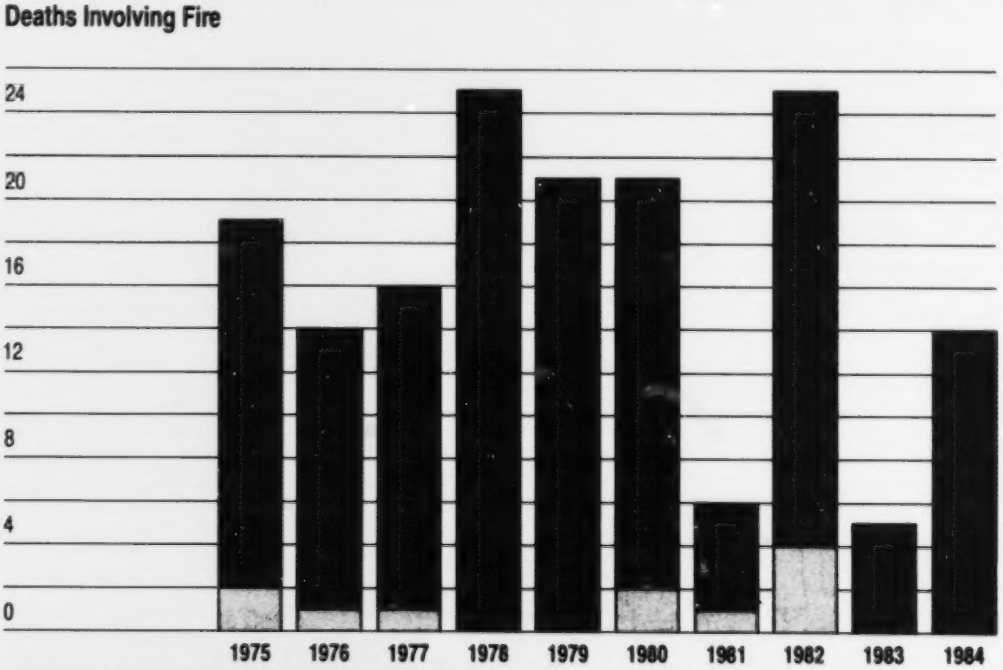
Alberta Fire Casualties

Section One

Fire Deaths
1975 - 1984



Deaths Involving Fire
1975 - 1984



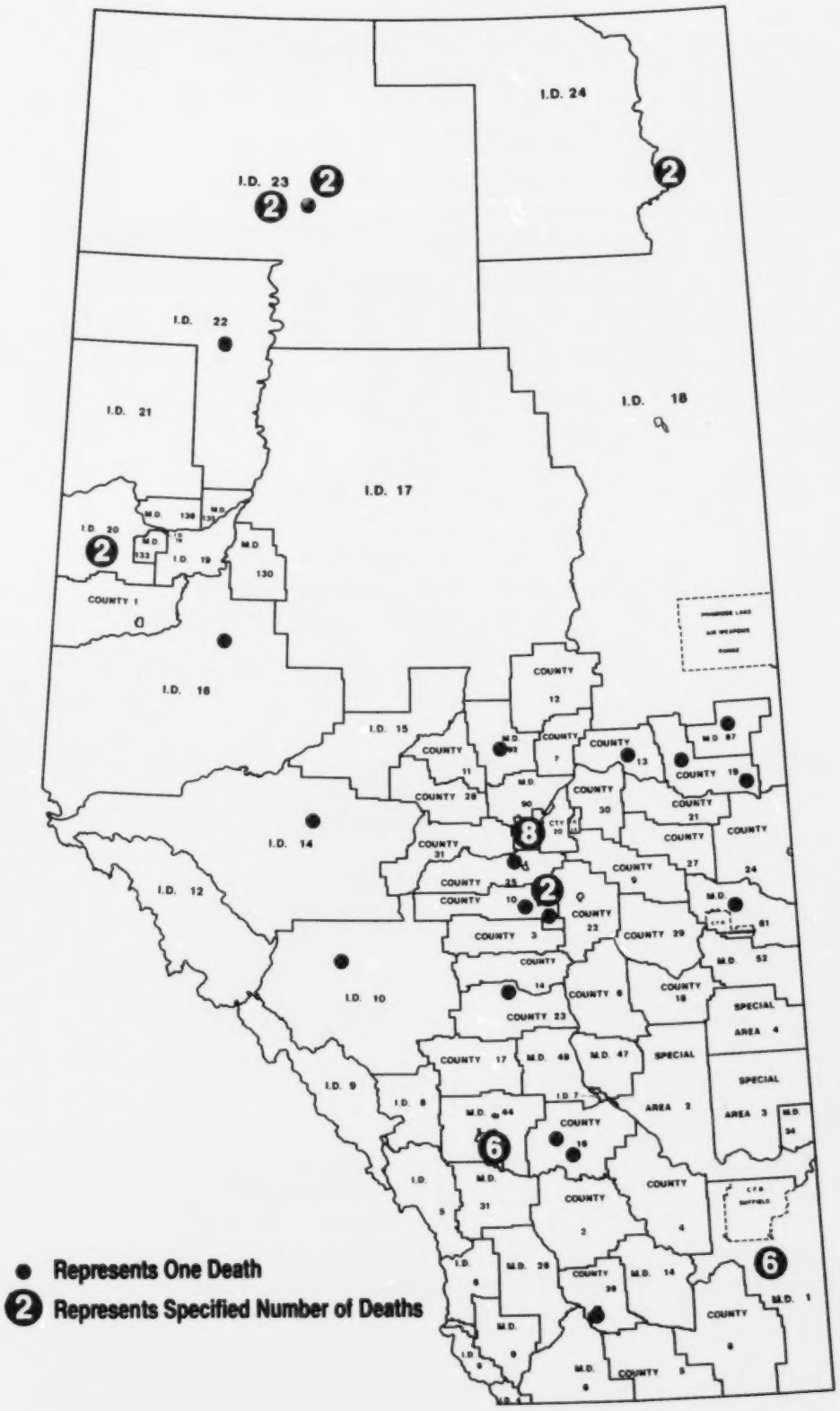
Commentary: Fire deaths refer to persons who died directly as a result of a fire, either by smoke inhalation or burns. Deaths involving fire refer to persons who were in a place where fire occurred, but who may have died from a cause other than the fire itself (e.g. a person who dies in an automobile accident where the vehicle catches fire, a suicide, a death in an arson fire).

Death Rates

	Alberta					Canada
YEAR	POPULATION	FIRE DEATHS	OTHER DEATHS INVOLVING FIRE	TOTAL DEATHS	FIRE DEATH RATE*	FIRE DEATH RATE*
1975	1,778,000	55	19	74	3.1	3.6
1976	1,838,000	64	14	78	3.5	3.7
1977	1,894,000	76	16	92	4.0	3.5
1978	1,954,000	66	25	91	3.4	3.6
1979	2,014,000	51	21	72	2.5	3.1
1980	2,146,000	55	21	76	2.6	3.4
1981	2,278,000	77	6	83	3.4	2.9
1982	2,332,000	58	25	83	2.5	2.7
1983	2,336,000	55	5	60	2.4	2.2
1984	2,346,000	48	14	62	2.0	N/A

*Deaths per 100,000 population

Fire Deaths by Geographic Location
1984



Casualties by Age and Sex
1984

CASUALTY	Age in Years 0-5	6-15	16-25	26-35	36-45	46-55	56-65	OVER 65	UNKNOWN	TOTAL
Fire Deaths										
Civilian:										
Male	3	4	6	3	4	6	4	3	1	34
Female	4	0	2	2	1	2	1	2	0	14
Firefighter:										
Male	0	0	0	0	0	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0
Total Deaths	**7**	**4**	**8**	**5**	**5**	**8**	**5**	**5**	**1**	**48**
Injuries										
Civilian:										
Male	8	10	51	54	36	20	21	4	39	243
Female	4	5	15	19	8	6	3	4	14	78
Firefighter:										
Male	0	0	9	45	20	9	1	0	7	91
Female	0	0	0	0	0	0	0	0	0	0
Total Injuries	**12**	**15**	**75**	**118**	**64**	**35**	**25**	**8**	**60**	**412**

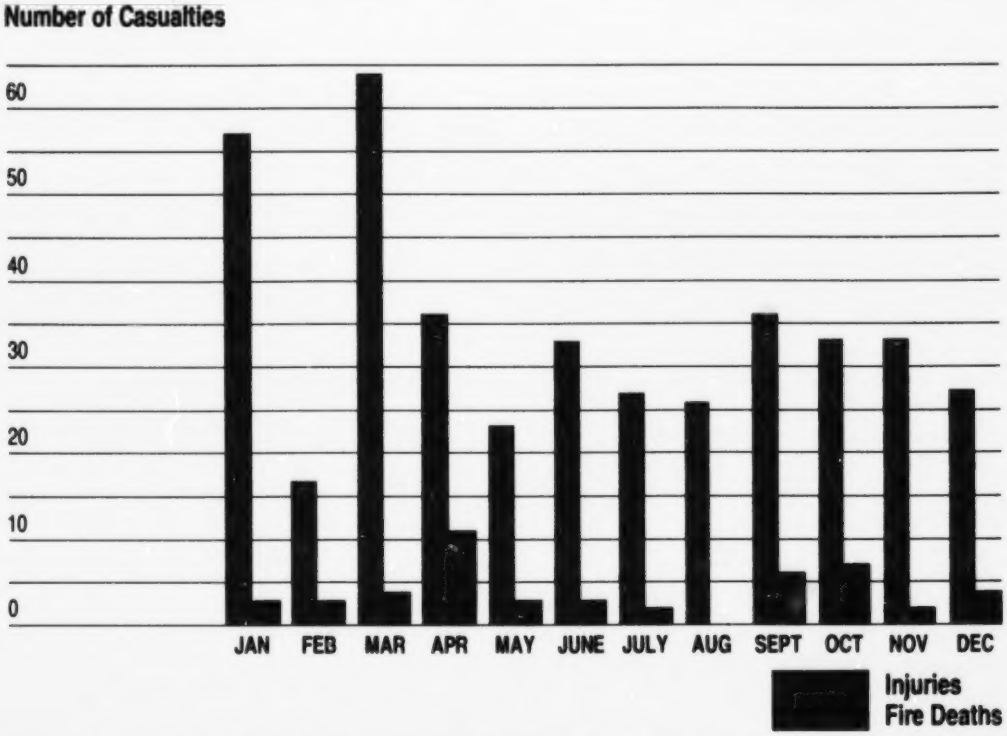
Commentary: The greatest number of fire deaths occurred in the 16-25 and 46-55 age categories followed closely by the 0-5 age category. Injuries were greatest in the 26-35 age category.

Conditions of Casualties
1984

CONDITION OF CASUALTY	FIRE DEATHS	% OF TOTAL	INJURIES	% OF TOTAL
Asleep at time of fire	10	20.8	53	12.9
Bedridden or other physical handicap	1	2.1	1	.2
Impairment by alcohol, drugs or medication	13	27.1	23	5.6
Awake and no physical or mental impairment at the time of fire	2	4.2	291	70.6
Under restraint or detention	0	–	0	–
Too young to react to fire emergency	6	12.5	7	1.7
Mental handicap (senile)	1	2.1	1	.2
Left unattended (children)	2	4.2	1	.2
Condition of casualty – unclassified or unknown	13	27.1	35	8.5
TOTAL	**48**	**100.1**	**412**	**99.9**

Commentary: Where the condition of the victim was known in a fatal fire, the victim was usually impaired by alcohol, drugs or medication, or asleep. The most common known factor for the injured victim was that he was awake and had no physical or mental impairment at the time of fire.

Casualties by Month
1984



Commentary: The number of fire deaths per month is highest in the month of April. March recorded the highest number of injuries.

Casualties by Time Period
1984

TIME PERIOD	FIRE DEATHS	% OF TOTAL	INJURIES	% OF TOTAL
6:31 a.m. - 2:30 p.m.	7	14.6	146	35.4
2:31 p.m. - 10:30 p.m.	5	10.4	112	27.2
10:31 p.m. - 6:30 a.m.	21	43.8	83	20.1
Unknown	15	31.3	71	17.2
TOTAL	**48**	**100.1**	**412**	**99.9**

Commentary: The percentage number of deaths between 10:31 p.m. and 6:30 a.m. was significantly higher than the other two time periods; however, the percentage number of injuries was lower at this time.

Fire Deaths by Major Property Classifications 1984

PROPERTY CLASSIFICATION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Assembly				
Theatre, Studio, Auditorium	0	–	0	–
Amusement, Recreation Place	0	–	0	–
School, College, University	0	–	0	–
Church, Funeral Parlor	0	–	0	–
Clubs, Social, Sport	0	–	0	–
Museum, Art Gallery, Library	0	–	0	–
Food or Beverage Establishment	0	–	0	–
Passenger Terminal, Station	0	–	0	–
Miscellaneous	0	–	0	–
Sub-Total	**0**	–	**0**	–
Institutional				
Prison, Jail, Reformatory	0	–	0	–
Home for the Aged	1	2.1	0	–
Child Care	0	–	0	–
Hospital, Sanatorium, Clinic	0	–	0	–
Miscellaneous	0	–	0	–
Sub-Total	**1**	**2.1**	**0**	–
Residential				
One and Two Family Dwellings	18	37.5	4	28.6
Apartment	8	16.7	0	–
Rooming, Boarding House	1	2.1	0	–
Hotel	0	–	0	–
Motor Hotel	0	–	0	–
Dormitory	0	–	0	–
Mobile Home	15	31.3	0	–
Miscellaneous	0	–	0	–
Sub-Total	**42**	**87.5**	**4**	**28.6**
Business and Personal Service				
Office	0	–	0	–
Personal Service	0	–	0	–
Electronic Equipment	0	–	0	–
Miscellaneous	0	–	0	–
Sub-Total	**0**	–	**0**	–
Mercantile				
Food, Beverage Sale	0	–	0	–
Textile, Wearing Apparel Sale	0	–	0	–
Furniture, Appliance, Hardware Sales	0	–	0	–
Books, Newspapers, Drugs, Specialties	0	–	0	–
Recreation, Hobby Supplies	0	–	0	–
Repair Shop, Laundry, Dry Cleaner	0	–	0	–
Motor Vehicles, Boats, Sales and Service	0	–	0	–
Department, Variety Store	0	–	0	–
Miscellaneous	0	–	0	–
Sub-Total	**0**	–	**0**	–

PROPERTY CLASSIFICATION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Industrial Manufacturing Properties				
Chemicals, Petroleum, Paints, Plastics	0	–	1	7.1
Wood, Furniture, Paper, Printing	0	–	0	–
Metal, Metal Products, Electrical Equipment and Appliances	0	–	0	–
Food Processing	0	–	0	–
Beverage, Tobacco, Soap, Margarine	0	–	0	–
Textiles	0	–	0	–
Wearing Apparel, Footwear	0	–	0	–
Vehicles and Related Equipment	0	–	0	–
Miscellaneous	0	–	0	–
Sub-Total	**0**	–	**1**	**7.1**
Storage Properties				
Agricultural Products	0	–	0	–
Textiles, Fibres, Clothing	0	–	0	–
Processed Food, Beverage	0	–	0	–
Flammable Liquids, Gases, Petroleum Products	0	–	1	7.1
Wood, Furniture, Paper and Products	0	–	0	–
Chemicals, Plastics, Paints	0	–	0	–
Metal Products, Machinery, Electrical Appliance	0	–	0	–
Vehicle	2	4.2	1	7.1
Miscellaneous	0	–	0	–
Sub-Total	**2**	**4.2**	**2**	**14.3**
Special Property – Transportation Equipment				
Outdoor Property	0	–	1	7.1
Special Connecting Thoroughfares	0	–	0	–
Under Construction/Demolition: Vacant	0	–	0	–
Watercraft	0	–	0	–
Rail Transport Vehicle and Equipment	0	–	0	–
Ground Transport Vehicle	2	4.2	4	28.6
Aircraft	0	–	0	–
Special Vehicles	0	–	1	7.1
Other Special Property	0	–	0	–
Sub-Total	**2**	**4.2**	**6**	**42.9**
Miscellaneous Property				
Laboratories	0	–	0	–
Farm Facilities	1	2.1	0	–
Miscellaneous Outbuildings	0	–	1	7.1
Utility	0	–	0	–
Cement, Glass, Pottery Manufacturing	0	–	0	–
Mining, Quarrying	0	–	0	–
Communications	0	–	0	–
Nucleonics	0	–	0	–
Miscellaneous	0	–	0	–
Sub-Total	**1**	**2.1**	**1**	**7.1**
TOTAL	**48**	**100.1**	**14**	**100.0**

Commentary: Over 87% of fire deaths occurred in residential properties.

Injuries by Major Property Classifications 1984

PROPERTY CLASSIFICATION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Assembly					
Theatre, Studio, Auditorium	0	0	0	0	–
Amusement, Recreation Place	0	1	0	1	.2
School, College, University	1	1	0	2	.5
Church, Funeral Parlour	0	0	0	0	–
Clubs, Social, Sport	0	0	0	0	–
Museum, Art Gallery, Library	0	0	0	0	–
Food or Beverage Establishment	4	3	0	7	1.7
Passenger Terminal, Station	0	0	0	0	–
Miscellaneous	0	0	0	0	–
Sub-Total	**5**	**5**	**0**	**10**	**2.4**
Institutional					
Prison, Jail, Reformatory	0	0	0	0	–
Home for the Aged	1	0	0	1	.2
Child Care	0	0	0	0	–
Hospital, Sanatorium, Clinic	1	0	1	2	.5
Miscellaneous	0	0	0	0	–
Sub-Total	**2**	**0**	**1**	**3**	**.7**
Residential					
One and Two Family Dwellings	70	29	21	120	29.1
Apartment	45	16	4	65	15.8
Rooming, Boarding House	1	0	2	3	.7
Hotel	2	1	0	3	.7
Motor Hotel	0	0	0	0	–
Dormitory	0	0	0	0	–
Mobile Home	14	3	3	20	4.9
Miscellaneous	0	0	0	0	–
Sub-Total	**132**	**49**	**30**	**211**	**51.2**
Business and Personal Service					
Office	1	0	1	2	.5
Personal Service	0	0	0	0	–
Electronic Equipment	1	0	0	1	.2
Miscellaneous	0	0	0	0	–
Sub-Total	**2**	**0**	**1**	**3**	**.7**
Mercantile					
Food, Beverage Sale	0	0	0	0	–
Textile, Wearing Apparel Sale	0	1	0	1	.2
Furniture, Appliance, Hardware Sales	0	5	0	5	1.2
Books, Newspapers, Drugs, Specialties	0	1	0	1	.2
Recreation, Hobby Supplies	0	0	0	0	–
Repair Shop, Laundry, Dry Cleaner	0	1	0	1	.2
Motor Vehicles, Boats, Sales and Service	7	1	2	10	2.4
Department, Variety Store	0	0	0	0	–
Miscellaneous	0	0	0	0	–
Sub-Total	**7**	**9**	**2**	**18**	**4.4**

PROPERTY CLASSIFICATION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Industrial Manufacturing Properties					
Chemicals, Petroleum, Paints, Plastics	4	1	3	8	1.9
Wood, Furniture, Paper, Printing	0	1	0	1	.2
Metal, Metal Products, Electrical Equipment and Appliances	4	0	0	4	1.0
Food Processing	0	1	1	2	.5
Beverage, Tobacco, Soap, Margarine	0	0	0	0	–
Textiles	0	0	0	0	–
Wearing Apparel, Footwear	0	0	0	0	–
Vehicles and Related Equipment	1	0	0	1	.2
Miscellaneous	0	0	0	0	–
Sub-Total	**9**	**3**	**4**	**16**	**3.9**
Storage Properties					
Agricultural Products	0	1	0	1	.2
Textiles, Fibres, Clothing	0	0	0	0	–
Processed Food, Beverage	0	0	0	0	–
Flammable Liquids, Gases, Petroleum Products	1	2	0	3	.7
Wood, Furniture, Paper and Products	0	0	0	0	–
Chemicals, Plastics, Paints	0	0	0	0	–
Metal Products, Machinery, Electrical Appliance	1	0	0	1	.2
Vehicle	9	2	1	12	2.9
Miscellaneous	1	0	0	1	.2
Sub-Total	**12**	**5**	**1**	**18**	**4.4**
Special Property					
Outdoor Property	5	6	1	12	2.9
Special Connecting Thoroughfares	0	0	0	0	–
Under Construction/Demolition: Vacant	8	5	1	14	3.4
Watercraft	0	0	0	0	–
Rail Transport Vehicle and Equipment	31	0	1	32	7.8
Ground Transport Vehicle	17	8	9	34	8.3
Aircraft	0	29	0	29	7.0
Special Vehicles	1	1	4	6	1.5
Other Special Property	0	0	0	0	–
Sub-Total	**62**	**49**	**16**	**127**	**30.8**
Miscellaneous Property					
Laboratories	0	0	0	0	–
Farm Facilities	2	1	0	3	.7
Miscellaneous Outbuildings	0	0	0	0	–
Utility	0	0	0	0	–
Cement, Glass, Pottery Manufacturing	0	0	0	0	–
Mining, Quarrying	1	0	2	3	.7
Communications	0	0	0	0	–
Nucleonics	0	0	0	0	–
Miscellaneous	0	0	0	0	–
Sub-Total	**3**	**1**	**2**	**6**	**1.5**
TOTAL	**234**	**121**	**57**	**412**	**100.0**

Commentary: Over 51% of injuries occurred in residential properties.

Fire Deaths by Act or Omission 1984

ACT OR OMISSION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Incendiary				
Arson – for fraudulent purposes	0	–	0	–
Arson – for vengeful/spiteful purposes	0	–	1	7.1
Arson – for obscuring other crime	0	–	2	14.3
Arson – to satisfy compulsive desires (pyromania)	0	–	0	–
Suspected Arson	0	–	0	–
Riot, Civil Commotion, Charges Laid	0	–	0	–
Riot, Civil Commotion, No Charges Laid	0	–	0	–
Vandalism, Mischief, Charges Laid	0	–	0	–
Vandalism, Mischief, No Charges Laid	0	–	0	–
Incendiary, Unclassified	0	–	3	21.4
Sub-Total	**0**	–	**6**	**42.9**
Misuse of Source of Ignition				
Smoker's Material	8	16.7	0	–
Thawing	0	–	0	–
Inadequate Control of "Open" Fire	2	4.2	0	–
Child Playing With	2	4.2	0	–
Welding or Cutting Too Close To	0	–	1	7.1
Torch Too Close To	0	–	0	–
Misuse of Source of Ignition, Unclassified	1	2.1	0	–
Sub-Total	**13**	**27.1**	**1**	**7.1**
Misuse of Material Ignited				
Fuel Spilled Accidentally	1	2.1	0	–
Improper Fuelling Technique	0	–	0	–
Flammable Liquid to Kindle Fire	1	2.1	0	–
Cleaning, Washing Parts	0	–	0	–
Improper Container	0	–	0	–
Overheated Cooking Oil, Grease, Wax	2	4.2	0	–
Combustible Placed Too Close to Heat	1	2.1	0	–
Improper Storage	0	–	0	–
Misuse of Material Ignited, Unclassified	1	2.1	0	–
Sub-Total	**6**	**12.5**	**0**	–
Mechanical, Electrical Failure, Malfunction				
Part Failure, Leak, Break	3	6.2	0	–
Automatic Control Failure	0	–	0	–
Manual Control Failure	0	–	0	–
Electrical Short Circuit	0	–	0	–
Part Worn Out	0	–	0	–
Mechanical, Electrical Failure, Unclassified	2	4.2	2	14.3
Sub-Total	**5**	**10.4**	**2**	**14.3**

ACT OR OMISSION	FIRE DEATHS	% OF TOTAL	DEATHS INVOLVING FIRE	% OF TOTAL
Construction, Design or Installation Deficiency				
Design Deficiency	0	–	0	–
Construction Deficiency	0	–	0	–
Installed Too Close to Combustible	0	–	0	–
Other Installation Deficiency	0	–	0	–
Over Fusing	0	–	0	–
Suspected Faulty Connections/Aluminum Wiring	0	–	0	–
Suspected Faulty Connections/Copper Wiring	0	–	0	–
Construction, Design or Installation Deficiency, Unclassified	0	–	0	–
Sub-Total	**0**	–	**0**	–
Misuse of Equipment				
Overfuelling	0	–	0	–
Misuse of Equipment, Unclassified	0	–	0	–
Sub-Total	**0**	–	**0**	–
Human Failing				
Asleep	1	2.1	0	–
Temporary Loss of Judgement	0	–	0	–
Physical or Mental Disability	0	–	0	–
Accident	0	–	0	–
Suspected Impairment by Alcohol, Drugs, Medication	2	4.2	0	–
Asleep – Suspected Use of Alcohol, Drugs, Medication	2	4.2	1	7.1
Ignorance of Hazard	2	4.2	1	7.1
Distracted, Preoccupied	0	–	0	–
Human Failing, Unclassified	0	–	0	–
Sub-Total	**7**	**14.6**	**2**	**14.3**
Vehicle Accident				
Automobile	0	–	1	7.1
Industrial Truck	0	–	1	7.1
Other Road Vehicle	0	–	0	–
Rail Vehicle	0	–	0	–
Watercraft	0	–	0	–
Aircraft	0	–	0	–
Vehicle Accident, Unclassified	0	–	0	–
Sub-Total	**0**	–	**2**	**14.3**
Miscellaneous				
Miscellaneous, Unclassified	1	2.1	0	–
Act or Omission – Cannot be Determined	16	33.3	1	7.1
Sub-Total	**17**	**35.4**	**1**	**7.1**
TOTAL	**48**	**100.0**	**14**	**100.0**

Commentary: Improper disposal of smokers' materials was the leading known cause of fatal fires.

Injuries by Act or Omission 1984

ACT OR OMISSION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Incendiary					
Arson – for fraudulent purposes	2	0	0	2	.5
Arson – for vengeful/spiteful purposes	5	2	0	7	1.7
Arson – for obscuring other crime	0	1	0	1	.2
Arson – to satisfy compulsive desires (pyromania)	0	0	0	0	–
Suspected Arson	6	5	0	11	2.7
Riot, Civil Commotion, Charges Laid	0	0	0	0	–
Riot, Civil Commotion, No Charges Laid	0	0	0	0	–
Vandalism, Mischief, Charges Laid	1	0	0	1	.2
Vandalism, Mischief, No Charges Laid	1	1	0	2	.5
Incendiary, Unclassified	3	1	0	4	1.0
Sub-Total	**18**	**10**	**0**	**28**	**6.8**
Misuse of Source of Ignition					
Smoker's Material	13	3	4	20	4.9
Thawing	4	0	0	4	1.0
Inadequate Control of "Open" Fire	7	1	0	8	1.9
Child Playing With	12	9	0	21	5.1
Welding or Cutting Too Close To	3	3	0	6	1.5
Torch Too Close To	2	1	0	3	.7
Misuse of Source of Ignition, Unclassified	2	0	0	2	.5
Sub-Total	**43**	**17**	**4**	**64**	**15.5**
Misuse of Material Ignited					
Fuel Spilled Accidentally	7	1	8	16	3.9
Improper Fuelling Technique	5	2	1	8	1.9
Flammable Liquid to Kindle Fire	7	2	4	13	3.2
Cleaning, Washing Parts	4	0	3	7	1.7
Improper Container	0	1	0	1	.2
Overheated Cooking Oil, Grease, Wax	32	5	4	41	10.0
Combustible Placed Too Close to Heat	4	1	0	5	1.2
Improper Storage	2	2	0	4	1.0
Misuse of Material Ignited, Unclassified	3	0	0	3	.7
Sub-Total	**64**	**14**	**20**	**98**	**23.8**
Mechanical, Electrical Failure, Malfunction					
Part Failure, Leak, Break	17	3	7	27	6.6
Automatic Control Failure	0	1	1	2	.5
Manual Control Failure	0	0	0	0	–
Electrical Short Circuit	9	8	1	18	4.4
Part Worn Out	0	0	0	0	–
Mechanical, Electrical Failure, Unclassified	8	30	3	41	10.0
Sub-Total	**34**	**42**	**12**	**88**	**21.4**

ACT OR OMISSION	MINOR INJURIES	LIGHT INJURIES	SERIOUS INJURIES	TOTAL INJURIES	% OF TOTAL
Construction, Design or Installation Deficiency					
Design Deficiency	0	0	0	0	–
Construction Deficiency	0	3	0	3	.7
Installed Too Close to Combustible	0	1	0	1	.2
Other Installation Deficiency	0	0	2	2	.5
Over Fusing	0	0	0	0	–
Suspected Faulty Connections/Aluminum Wiring	0	0	0	0	–
Suspected Faulty Connections/Copper Wiring	0	0	0	0	–
Construction, Design or Installation Deficiency, Unclassified	0	3	0	3	.7
Sub-Total	**0**	**7**	**2**	**9**	**2.2**
Misuse of Equipment					
Overfuelling	0	0	0	0	–
Misuse of Equipment, Unclassified	0	0	0	0	–
Sub-Total	**0**	**0**	**0**	**0**	–
Human Failing					
Asleep	3	7	2	12	2.9
Temporary Loss of Judgement	0	1	0	1	.2
Physical or Mental Disability	0	0	0	0	–
Accident	1	3	1	5	1.2
Suspected Impairment by Alcohol, Drugs, Medication	4	1	2	7	1.7
Asleep – Suspected Use of Alcohol, Drugs, Medication	6	1	0	7	1.7
Ignorance of Hazard	11	7	4	22	5.3
Distracted, Preoccupied	4	0	0	4	1.0
Human Failing, Unclassified	3	0	0	3	.7
Sub-Total	**32**	**20**	**9**	**61**	**14.8**
Vehicle Accident					
Automobile	0	0	5	5	1.2
Industrial Truck	0	0	1	1	.2
Other Road Vehicle	0	0	0	0	–
Rail Vehicle	31	0	1	32	7.8
Watercraft	0	0	0	0	–
Aircraft	0	0	0	0	–
Vehicle Accident, Unclassified	0	0	0	0	–
Sub-Total	**31**	**0**	**7**	**38**	**9.2**
Miscellaneous					
Miscellaneous, Unclassified	2	3	0	5	1.2
Act or Omission – Cannot be Determined	10	8	3	21	5.1
Sub-Total	**12**	**11**	**3**	**26**	**6.3**
TOTAL	**234**	**121**	**57**	**412**	**100.0**

Commentary: Overheated cooking oil was the leading cause of fires where injuries occurred, followed by rail vehicle accidents.

Casualties in Residential Properties 1984

Casualties Related to Initial Detection of the Fire

INITIAL DETECTION	DEATHS	INJURIES
Smoke Alarm/Detector	1	28
Heat Alarm/Detector	0	0
Automatic Systems	0	0
Visual Sighting	41	183
Unclassified/Unknown	0	0
TOTAL	42	211

Commentary: There was only one fatality in residential fires where the fires were initially detected by smoke alarms or smoke detectors.

Casualties by Smoke Alarm Activation

SMOKE ALARM ACTIVATION	DEATHS	INJURIES
Activated	1	71
Didn't Activate	14	41
Unknown	4	9

Commentary: The instance where the smoke alarm activated, resulted in one fatality and two injuries; however 11 others were evacuated safely. The two people injured in this instance were found still sleeping at the time of the fire.

In 50% of the fatal fires where the smoke alarm didn't activate, it was because the alarm contained no battery.

Casualties by Method of Control and Extinguishment

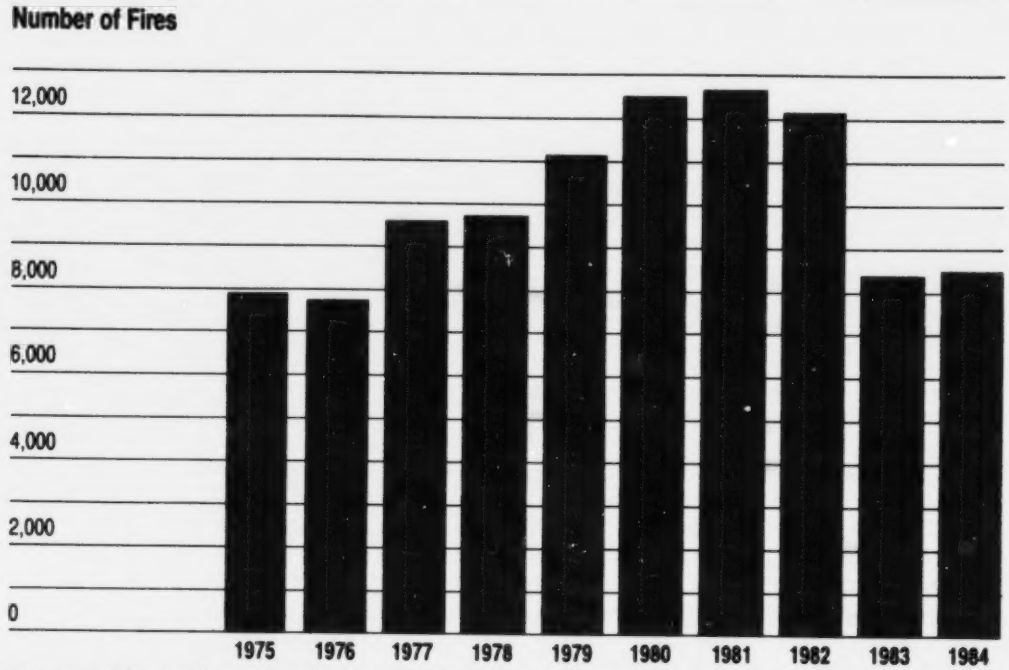
METHOD OF CONTROL AND EXTINGUISHMENT	DEATHS	INJURIES
Hand Fire Extinguisher	0	17
Standpipe System	2	11
Makeshift Firefighting Aid	1	26
Fire Department – Water	28	106
Fire Department – Other Than Water	0	0
Sprinkler System	0	0
Fixed System Other Than Sprinklers	0	0
Burned Out	8	18
Miscellaneous	3	33
TOTAL	42	211

Commentary: While 10% of the residential fires were extinguished by hand fire extinguishers, there were no fatalities in these fires. Five percent of all fires burned out and 19% of the fatalities occurred in these fires.

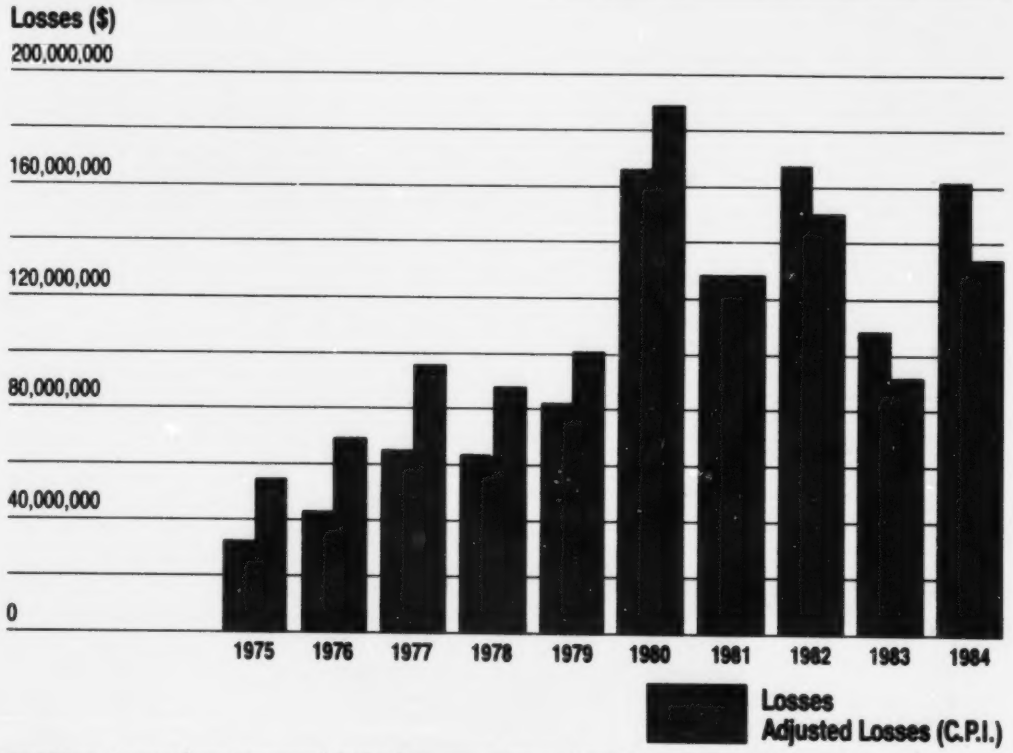
Alberta Fire Loss Information

Section Two

Fires and Losses
1975 - 1984



Commentary: The number of fires has increased 7% from 1975 to 1984. Grass fires were not included in 1983 and 1984 as they were in previous years. If they were included, fires in 1983 would be 10,210 and in 1984, 10,193.



Commentary: Losses have increased 395% between 1975 and 1984 and adjusted losses have increased 140%.

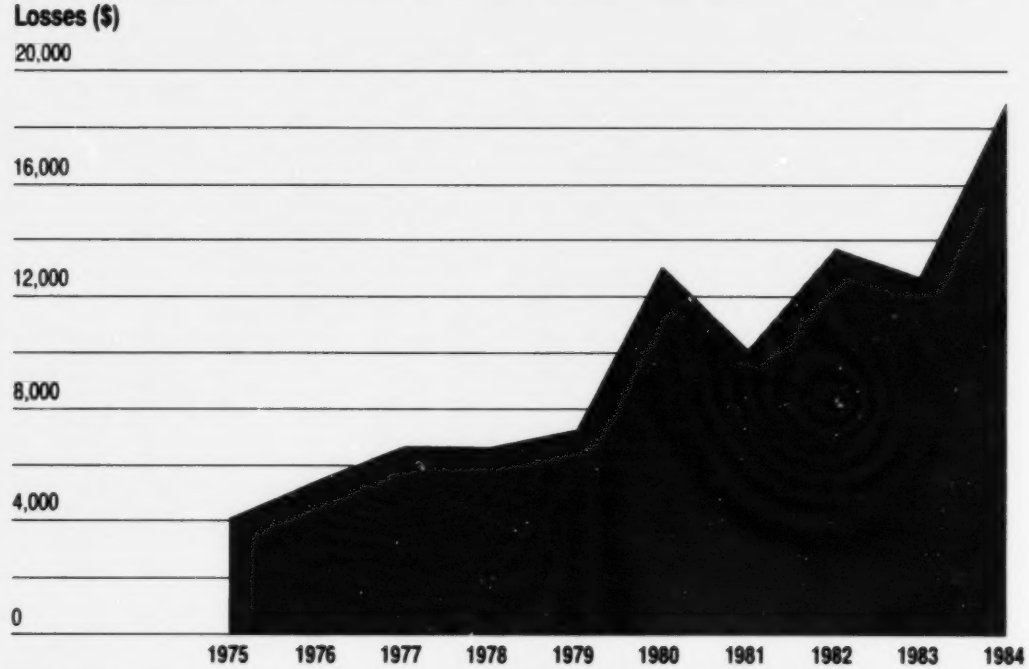
Fire Rates and Per Capita Losses
1975 - 1984

YEAR	POPULATION*	NO. OF FIRES	FIRE RATE**	LOSS ESTIMATE	LOSS PER CAPITA
1975	1,789,000	7,934	4.4	32,617,954	18.23
1976	1,866,000	7,773	4.2	43,562,105	23.35
1977	1,941,000	9,607	4.9	64,544,029	33.77
1978	2,011,000	9,683	4.8	65,279,630	32.46
1979	2,085,000	11,159	5.4	82,942,773	39.78
1980	2,180,000	12,651	5.8	166,652,459	76.45
1981	2,267,000	12,656	5.6	128,896,436	56.86
1982	2,345,000	12,117	5.2	167,361,704	71.37
1983	2,366,000	8,413***	3.6	108,031,377	46.66
1984	2,358,000	8,467****	3.6	161,525,596	68.50
Average (1975-1984)		**10,037**		**102,241,406**	

* As published by Alberta Quarterly Growth, 4th Quarterly, Alberta Bureau of Statistics
** Number of fires per 1,000 population
*** This number does not include 1,797 grass fires where no losses occurred
**** This number does not include 1,626 grass fires where no losses occurred

Commentary: From 1975 to 1984, Alberta's population increased 32%, the number of fires increased 7%, the loss estimate increased 395%, and the loss per capita increased 275%. Between 1983 and 1984 there was less than 1% increase in the number of fires.

Average Loss Per Fire
1975 - 1984



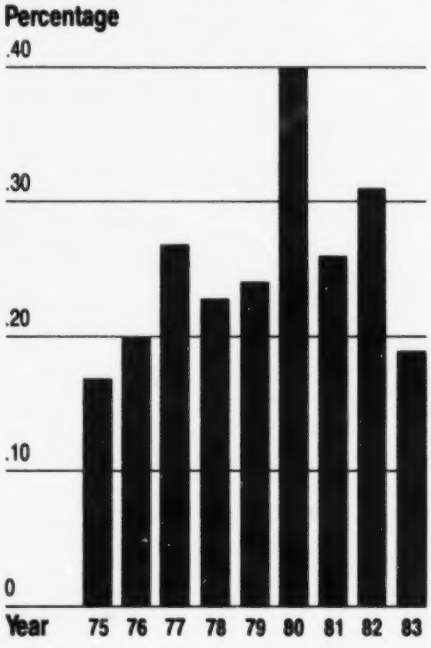
Commentary: There is a 364% increase in the average loss per fire from 1975 to 1984.

Fire Losses Related to Economic Indices 1975 - 1984

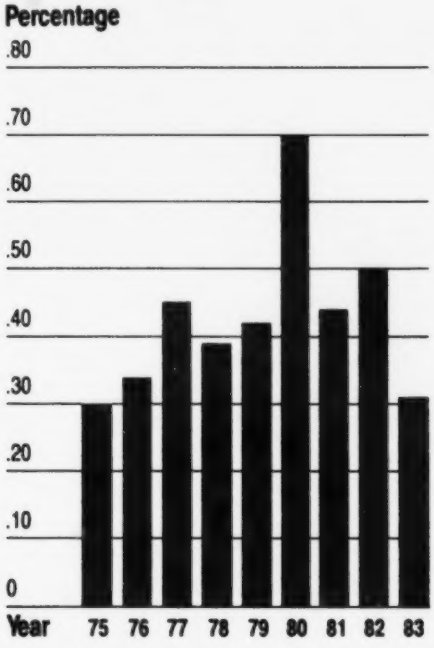
YEAR	FIRE LOSSES (IN $000,000'S)	Gross Domestic Product: GROSS DOMESTIC PRODUCT* (IN $000,000'S)	Gross Domestic Product: % OF GROSS DOMESTIC PRODUCT	Personal Income: PERSONAL INCOME* (IN $000,00'S)	Personal Income: % OF PERSONAL INCOME
1975	32.6	18,657	.17	11,015	.30
1976	43.6	21,582	.20	12,691	.34
1977	65.5	24,469	.27	14,474	.45
1978	65.3	28,318	.23	16,653	.39
1979	82.9	35,111	.24	19,914	.42
1980	166.7	42,080	.40	23,710	.70
1981	128.9	49,275	.26	29,305	.44
1982	167.4	53,205	.31	33,170	.50
1983	108.0	55,503	.19	34,551	.31
1984	161.5	N/A	–	N/A	–

*Alberta Economic Accounts, 1983.

FIRE LOSSES AS A PERCENTAGE OF GROSS DOMESTIC PRODUCT

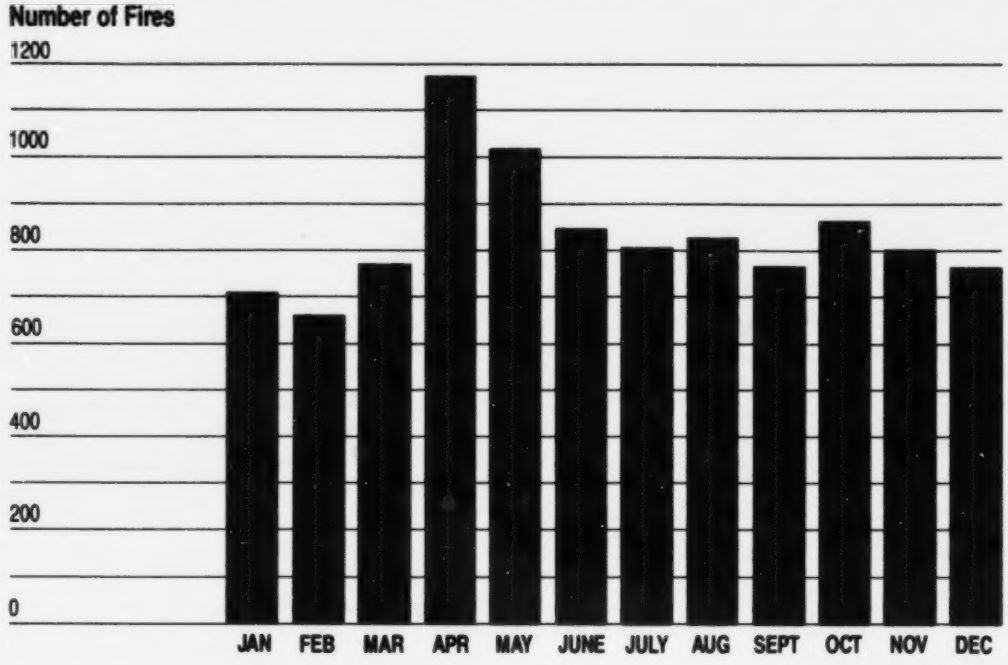


FIRE LOSSES AS A PERCENTAGE OF PERSONAL INCOME

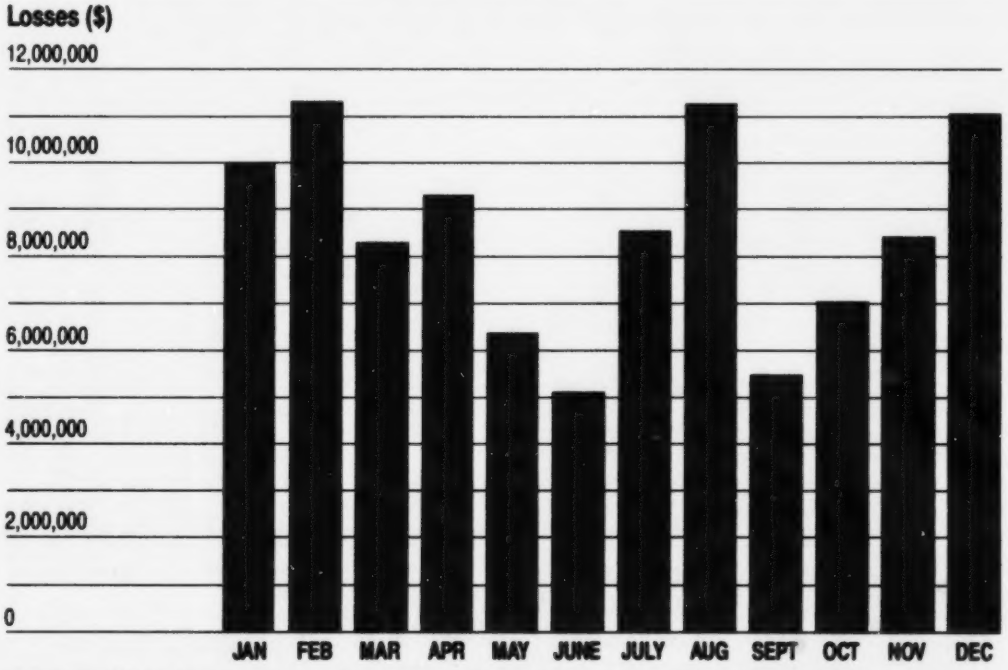


Commentary: As a percentage of gross domestic product, fire losses have increased 12% between 1975 and 1983. As a percentage of personal income, fire losses increased 3% during the same time period.

Average Number of Fires by Month
1975 - 1984

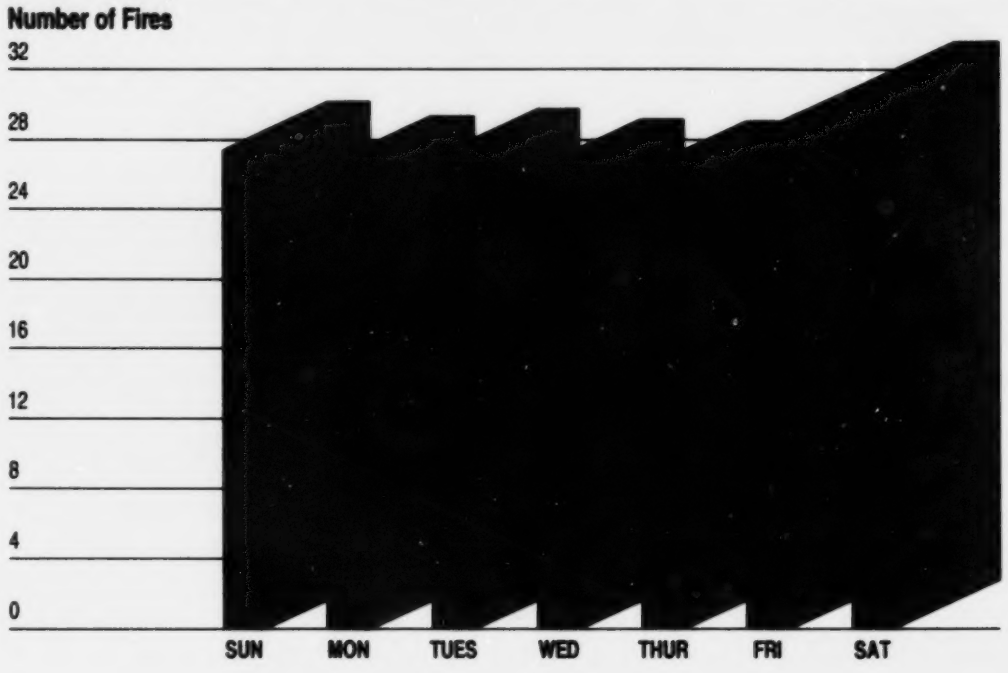


Average Fire Loss by Month
1975 - 1984

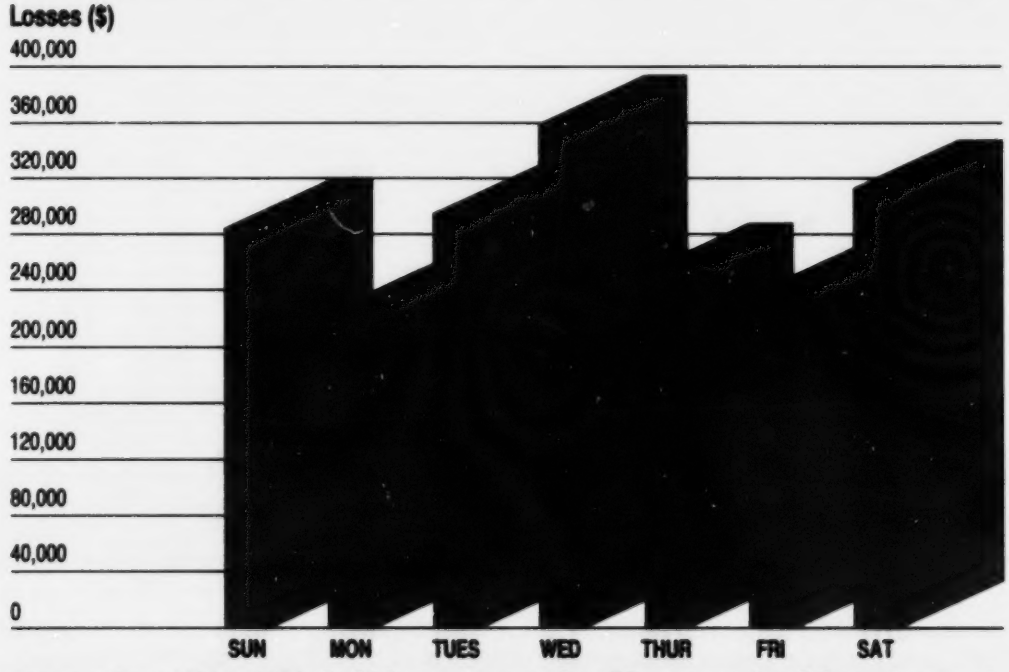


Commentary: While the average number of fires was greatest in the months of April and May, average losses were highest in February and August. The highest average loss per fire per month ($17,008) was in February.

Average Number of Fires by Day of Week
1975 - 1984

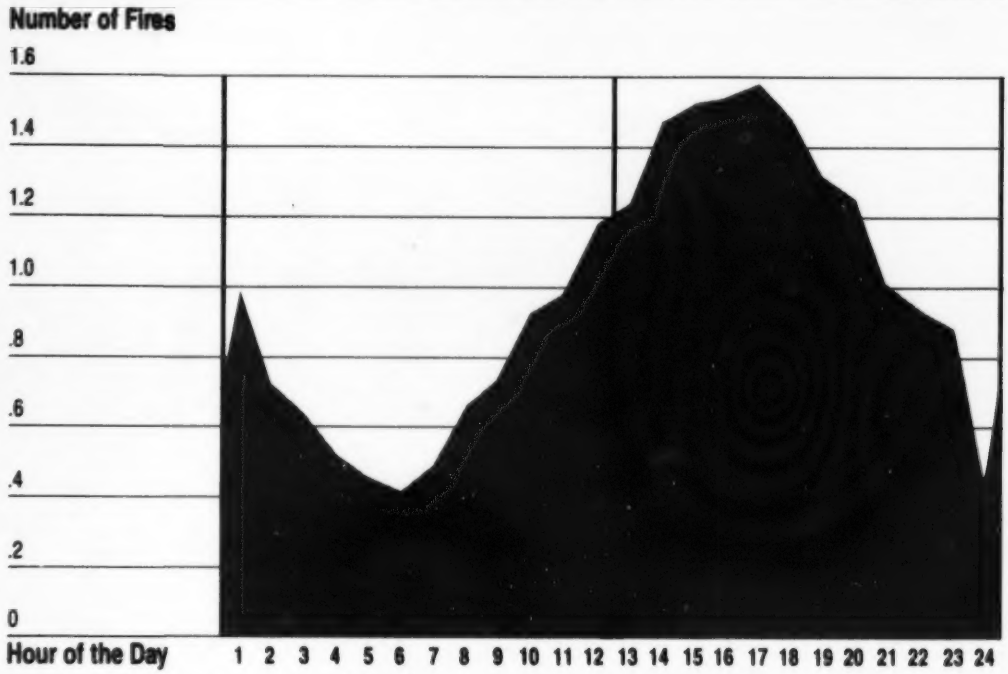


Average Fire Loss by Day of Week
1975 - 1984



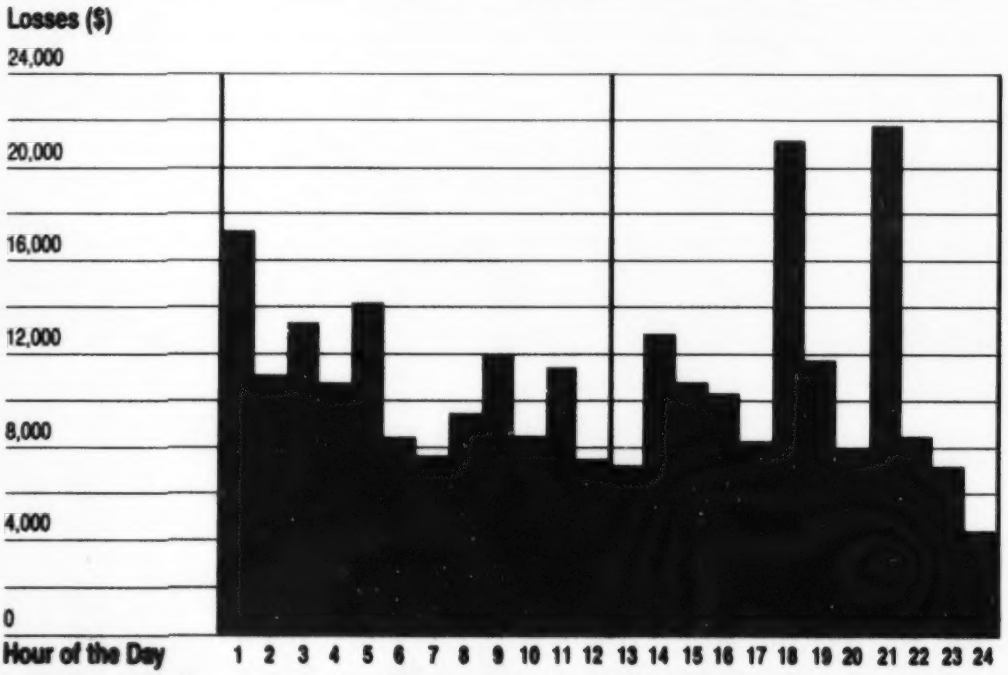
Commentary: From 1975 to 1984, the highest average number of fires on any day of the week occurred on Saturday. Wednesday had higher losses than other days, with Monday having the lowest losses.

Average Number of Fires by Hour of Day
1975 - 1984



Commentary: There was an average of four fires at an undetermined time of day.

Average Fire Loss by Hour of Day
1975 - 1984



Commentary: While the greatest number of fires occurred between the hours of 1400 (2:00 p.m.) and 1800 (6:00 p.m.), the greatest losses generally occurred at 2100 (9:00 p.m.) and 1800 (6:00 p.m.). The greatest average loss was sustained at 2100 (9:00 p.m.). Losses of $15,102 were at an undetermined time of day.

Fires by Loss Category – 1984

LOSS CATEGORY	NUMBER	LOSSES	PERCENTAGE NUMBER	PERCENTAGE LOSSES
$1-99	1,297	35,805	15.3	less than .1
100-999	2,874	1,186,237	33.9	.7
1,000-9,999	2,958	9,451,661	34.9	5.9
10,000-49,999	968	21,549,892	11.4	13.3
50,000-249,999	314	29,300,556	3.7	18.1
250,000-499,999	31	10,071,404	.4	6.2
500,000 and over	25	89,930,041	.3	55.7
TOTAL	**8,467**	**161,525,596**	**99.9**	**99.9**

Commentary: Just under one-half of one per cent of the fires caused 55.7% of the 1984 losses.

1984 Large Loss Fires

($500,000 and over)

PROPERTY CLASS	DATE	LOCATION	OCCUPANCY	ACT OR OMISSION	LOSSES	INJURIES
Assembly	April 2	Strathmore	ice rink	unknown	839,000	
	April 27	Calgary	restaurant	construction deficiency	586,162	2
	July 13	High Prairie	elementary school	incendiary	648,082	
Residential	Apr 13	I.D. #17	bunkhouse	ignorance of hazard	686,883	
	Dec 26	Cty #31	single family dwelling	unknown	500,000	
Mercantile	Jan 4	Grimshaw	vehicle repair garage	unknown	518,819	
	Feb 11	Hairy Hill	hardware store	incendiary	552,605	
	Sept 29	Strathmore	supermarket	electrical short	1,228,750	
Industrial Manufacturing	Jan 7	Calgary	bicycle manufacturing	incendiary	1,954,796	1
	Jan 8	I.D. #18	petroleum refinery	part failure	3,000,000	
	Apr 7	I.D. #18	petroleum refinery	part failure	720,181	
	May 30	Cty #17	petroleum refinery	part failure	1,050,000	2
	Aug 15	I.D. #18	petroleum refinery	part failure	50,000,000	
	Aug 31	Ft. Saskatchewan	hazardous chemicals	fuel spilled accidentally	600,000	
	Oct 27	Cty #4	petroleum refinery	design deficiency	750,000	
	Nov 28	Medicine Hat	hazardous chemicals	ignorance of hazard	1,000,000	
Storage	Feb 11	Edmonton	metal products storage	welding/cutting too close	600,000	1
	Mar 2	Viking	grain elevator	welding/cutting too close	1,290,000	
	July 14	Cty #4	general auto parking garage	unknown	941,963	1
	Aug 4	Red Deer	storage property unclassified	incendiary	895,000	
	Aug 27	Granum	grain elevator	electrical short	2,141,800	
	Oct 22	Cty #20	fertilizer storage	welding/cutting too close	788,000	
Special	Mar 22	Calgary	commercial airplane	mechanical/electrical malfunction	16,000,000	20
	May 5	Calgary	tank truck	vehicle accident	638,000	
Miscellaneous	Dec 22	Cty #17	gas manufacturing	part failure	2,000,000	

Commentary: There were no deaths in these large loss fires.

Fires by Major Property Classifications 1984

PROPERTY CLASSIFICATION	NUMBER OF FIRES	% OF TOTAL	LOSSES	% OF TOTAL
Assembly				
Theatre, Studio, Auditorium	2	–	102	–
Amusement, Recreation Place	35	.4	1,396,499	.9
School, College, University	59	.7	1,385,249	.9
Church, Funeral Parlour	17	.2	403,898	.3
Clubs, Social, Sport	6	.1	101,393	.1
Museum, Art Gallery, Library	3	–	80,750	–
Food or Beverage Establishment	65	.8	2,273,934	1.4
Passenger Terminal, Station	3	–	38,935	–
Miscellaneous	0	–	0	–
Sub-Total	**190**	**2.2**	**5,680,760**	**3.5**
Institutional				
Prison, Jail, Reformatory	9	.1	62,966	–
Home for the Aged	13	.2	65,650	–
Child Care	0	–	0	–
Hospital, Sanatorium, Clinic	25	.3	141,513	.1
Miscellaneous	0	–	0	–
Sub-Total	**47**	**.6**	**270,129**	**.2**
Residential				
One and Two Family Dwellings	1,699	20.1	19,524,662	12.1
Apartment	535	6.3	3,174,571	2.0
Rooming, Boarding House	21	.2	481,266	.3
Hotel	27	.3	435,063	.3
Motor Hotel	13	.2	755,968	.5
Dormitory	14	.2	784,307	.5
Mobile Home	349	4.1	4,408,501	2.7
Miscellaneous	9	.1	16,149	–
Sub-Total	**2,667**	**31.5**	**29,580,487**	**18.3**
Business and Personal Service				
Office	46	.5	485,091	.3
Personal Service	3	–	35,903	–
Electronic Equipment	4	–	207,230	.1
Miscellaneous	0	–	0	–
Sub-Total	**53**	**.6**	**728,224**	**.5**
Mercantile				
Food, Beverage Sale	22	.3	2,017,787	1.2
Textile, Wearing Apparel Sale	8	.1	333,873	.2
Furniture, Appliance, Hardware Sales	10	.1	1,114,793	.7
Books, Newspapers, Drugs, Specialties	10	.1	198,333	.1
Recreation, Hobby Supplies	5	.1	333,531	.2
Repair Shop, Laundry, Dry Cleaner	17	.2	204,665	.1
Motor Vehicles, Boats, Sales and Service	48	.6	2,384,749	1.5
Department, Variety Store	17	.2	256,766	.2
Miscellaneous	6	.1	426,891	.3
Sub-Total	**143**	**1.7**	**7,271,388**	**4.5**

PROPERTY CLASSIFICATION	NUMBER OF FIRES	% OF TOTAL	LOSSES	% OF TOTAL
Industrial Manufacturing Properties				
Chemicals, Petroleum, Paints, Plastics	35	.4	58,085,541	36.0
Wood, Furniture, Paper, Printing	21	.2	434,563	.3
Metal, Metal Products, Electrical Equipment and Appliances	18	.2	666,423	.4
Food Processing	20	.2	426,171	.3
Beverage, Tobacco, Soap, Margarine	5	.1	283,285	.2
Textiles	1	–	1	–
Wearing Apparel, Footwear	2	–	1,150	–
Vehicles and Related Equipment	3	–	1,964,090	1.2
Miscellaneous	3	–	464,702	.3
Sub-Total	**108**	**1.3**	**62,325,926**	**38.6**
Storage Properties				
Agricultural Products	93	1.1	3,800,627	2.4
Textiles, Fibres, Clothing	1	–	1	–
Processed Food, Beverage	3	–	12,350	–
Flammable Liquids, Gases, Petroleum Products	36	.4	545,816	.3
Wood, Furniture, Paper and Products	35	.4	235,121	.1
Chemicals, Plastics, Paints	5	.1	888,450	.6
Metal Products, Machinery, Electrical Appliance	11	.1	725,509	.4
Vehicle	248	2.9	3,060,381	1.9
Miscellaneous	19	.2	1,590,545	1.0
Sub-Total	**451**	**5.3**	**10,858,800**	**6.7**
Special Property – Transportation Equipment				
Outdoor Property	975	11.5	325,260	.2
Special Connecting Thoroughfares	5	.1	257,100	.2
Under Construction/Demolition: Vacant	201	2.4	2,475,917	1.5
Watercraft	19	.2	78,365	–
Rail Transport Vehicle and Equipment	18	.2	699,512	.4
Ground Transport Vehicle	2,471	29.2	7,811,240	4.8
Aircraft	6	.1	16,585,247	10.3
Special Vehicles	329	3.9	5,140,228	3.2
Other Special Property	0	–	0	–
Sub-Total	**4,024**	**47.5**	**33,372,869**	**20.7**
Miscellaneous Property				
Laboratories	3	–	127,010	.1
Farm Facilities	351	4.1	4,616,784	2.9
Miscellaneous Outbuildings	262	3.1	1,419,882	.9
Utility	75	.9	477,380	.3
Cement, Glass, Pottery Manufacturing	4	–	88,855	.1
Mining, Quarrying	54	.6	4,524,622	2.8
Communications	3	–	118,586	.1
Nucleonics	0	–	0	–
Miscellaneous	32	.4	63,894	–
Sub-Total	**784**	**9.3**	**11,437,013**	**7.1**
TOTAL	**8,467**	**100.0**	**161,525,596**	**100.1**

Commentary: While the number of fires was greatest in the 'special' classification (notably vehicles) with 48%, losses were greatest in industrial manufacturing properties with 39%.

Property Losses Related to Area of Origin 1984

PROPERTY CLASSIFICATION	Means of Egress		Assembly Area		Function Area		Storage Area	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	13	35,060	19	1,234,547	62	2,441,773	18	184,813
Institutional	1	713	7	71,401	31	97,823	2	3,900
Residential	71	623,061	343	4,811,531	1,465	10,941,084	89	1,628,621
Business	9	17,192	4	100,682	12	177,820	6	32,223
Mercantile	5	210,905	9	125,200	18	522,626	30	3,493,248
Manufacturing	0	0	0	0	32	3,753,413	12	50,722,016
Storage	3	1,290,690	0	0	7	1,027,481	153	2,757,029
Special	10	39,762	21	218,350	43	722,531	28	182,644
Miscellaneous	0	0	0	0	28	685,200	104	1,984,863
TOTAL	112	2,217,383	403	6,561,711	1,698	20,369,751	442	60,989,357

PROPERTY CLASSIFICATION	Service Facilities		Service and Equipment Area		Structural Area		Vehicle Area	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	13	735,301	24	377,850	26	445,817	0	0
Institutional	1	8,892	2	78,207	3	9,193	0	0
Residential	99	634,107	116	2,833,541	361	5,842,217	34	169,680
Business	3	615	7	174,920	8	180,870	0	0
Mercantile	2	956	38	2,084,463	26	329,760	2	12,128
Manufacturing	8	76,595	27	6,128,819	14	736,562	1	25,300
Storage	4	27,100	13	1,793,279	173	2,836,327	8	105,761
Special	2	149,276	11	154,313	55	608,277	2,835	29,952,540
Miscellaneous	9	439,684	67	3,318,473	291	2,601,337	18	63,384
TOTAL	141	2,072,526	305	16,943,865	957	13,590,360	2,898	30,328,793

PROPERTY CLASSIFICATION	Outside Area		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	10	59,700	5	165,899	190	5,680,760
Institutional	0	0	0	0	47	270,129
Residential	24	104,545	65	1,992,100	2,667	29,580,487
Business	0	0	4	43,902	53	728,224
Mercantile	10	16,451	3	475,651	143	7,271,388
Manufacturing	14	883,221	0	0	108	62,325,926
Storage	75	675,697	15	345,436	451	10,858,800
Special	990	1,063,834	29	281,342	4,024	33,372,869
Miscellaneous	203	1,079,082	64	1,264,990	784	11,437,013
TOTAL	1,326	3,882,530	185	4,569,320	8,467	161,525,596

Commentary: For all types of occupancies, fires starting in storage areas caused an average $137,985 loss. The next highest average loss, $55,554, occurred when fires started in service and equipment areas. The average loss of a fire in a manufacturing facility was $577,092, however in this same occupancy, if the fire started in a storage room, the average loss was $4,226,835.

Property Losses Related to Act or Omission 1984

PROPERTY CLASSIFICATION	Incendiary Fires		Misuse of Source		Misuse of Material		Mechanical, Electrical Failure	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	53	1,040,849	26	751,513	23	571,740	40	649,808
Institutional	10	67,469	10	15,027	7	7,067	11	120,953
Residential	172	2,819,062	538	5,063,594	583	4,472,626	478	5,260,610
Business	12	219,988	15	128,576	2	17,173	21	288,487
Mercantile	29	2,174,469	27	474,534	15	278,493	41	2,478,357
Manufacturing	5	2,265,192	20	170,865	9	764,638	36	55,901,709
Storage	60	1,157,905	127	3,633,412	31	207,138	60	3,103,501
Special	332	1,829,257	735	1,473,024	102	377,409	1,836	22,833,184
Miscellaneous	51	117,254	241	1,699,489	29	316,548	150	4,666,089
TOTAL	724	11,691,445	1,739	13,410,034	801	7,012,832	2,673	95,302,698

PROPERTY CLASSIFICATION	Design Deficiency		Misuse of Equipment		Human Failing		Vehicle Accident	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	6	739,812	2	21,500	14	172,120	0	0
Institutional	0	0	0	0	6	59,548	0	0
Residential	142	2,013,788	10	14,422	508	3,958,016	2	46,272
Business	1	16,000	0	0	0	0	0	0
Mercantile	6	8,831	0	0	5	13,301	2	310
Manufacturing	11	1,452,042	1	2,925	10	1,081,299	0	0
Storage	16	92,133	5	57,353	28	555,663	0	0
Special	34	202,130	12	7,098	125	884,675	61	1,839,136
Miscellaneous	22	497,483	3	3,223	27	348,776	0	0
TOTAL	238	5,022,219	33	106,521	723	7,073,398	65	1,885,718

PROPERTY CLASSIFICATION	Miscellaneous		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	8	236,054	18	1,497,364	190	5,680,760
Institutional	0	0	3	65	47	270,129
Residential	40	161,212	194	5,770,885	2,667	29,580,487
Business	1	25,000	1	33,000	53	728,224
Mercantile	3	32,176	15	1,810,917	143	7,271,388
Manufacturing	6	81,678	10	605,578	108	62,325,926
Storage	40	167,101	84	1,884,594	451	10,858,800
Special	144	927,475	643	2,999,481	4,024	33,372,869
Miscellaneous	107	910,670	154	2,877,481	784	11,437,013
TOTAL	349	2,541,366	1,122	17,479,365	8,467	161,525,596

Commentary: Mechanical and electrical failures caused 32% of all fires and 59% of the losses. Misuse of source of ignition caused 21% of all fires and 8% of all property losses. The average loss in an incendiary fire was $16,148.

In residential properties, incendiarism resulted in an average loss per fire of $16,390. The next highest average loss, $14,182, occurred in fires resulting from a design deficiency.

Property Losses Related to Source of Ignition 1984

PROPERTY CLASSIFICATION	Cooking Equipment		Heating Equipment		Appliances and Equipment		Electrical Distribution Equipment	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	34	1,468,513	19	580,355	11	99,711	12	152,323
Institutional	6	3,318	2	3,800	9	92,555	0	0
Residential	837	4,010,959	402	6,411,563	183	1,377,929	143	2,378,323
Business	1	750	3	62,820	6	34,797	8	186,910
Mercantile	1	50	19	638,950	13	60,873	18	1,552,171
Manufacturing	5	32,850	15	2,854,362	2	255	8	558,442
Storage	8	10,716	45	828,207	5	39,338	23	322,909
Special	32	17,796	34	721,141	62	616,059	849	2,203,518
Miscellaneous	6	24,021	46	870,718	8	45,207	58	736,483
TOTAL	930	5,568,973	585	12,971,916	299	2,366,724	1,119	8,091,079

PROPERTY CLASSIFICATION	Other Electrical Equipment		Smoker's Material and "Open" Flames		Exposure		Miscellaneous	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	4	7,120	72	1,579,126	10	30,865	10	237,287
Institutional	3	78,597	23	73,036	2	8,793	0	0
Residential	53	795,236	709	6,745,891	109	1,881,890	50	461,791
Business	5	19,710	21	293,860	4	54,673	1	100
Mercantile	8	121,417	42	1,406,046	9	173,021	9	129,755
Manufacturing	7	145,215	24	2,507,120	4	100,300	31	51,696,328
Storage	9	117,561	80	3,509,124	189	2,826,489	28	550,244
Special	19	147,943	864	1,979,490	411	1,134,139	1,064	21,347,604
Miscellaneous	30	2,311,387	87	379,179	343	2,219,527	76	1,831,135
TOTAL	138	3,744,186	1,922	18,472,872	1,081	8,429,697	1,269	76,254,244

PROPERTY CLASSIFICATION	Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	18	1,525,460	190	5,680,760
Institutional	2	10,030	47	270,129
Residential	181	5,516,905	2,667	29,580,487
Business	4	74,604	53	728,224
Mercantile	24	3,189,105	143	7,271,388
Manufacturing	12	4,431,054	108	62,325,926
Storage	64	2,654,212	451	10,858,800
Special	689	5,205,179	4,024	33,372,869
Miscellaneous	130	3,019,356	784	11,437,013
TOTAL	1,124	25,625,905	8,467	161,525,596

Commentary: Smoker's material and open flames were the source of ignition for 23% of the fires and 8% of the losses. Where a source of ignition was identified, the highest average loss of $27,131 was in fires where the source was other electrical equipment. The next highest average loss, $22,174, was in fires where heating equipment was the source of ignition. In residential properties, the highest average loss, $16,631, was in fires where the source of ignition was electrical distribution equipment.

Property Losses Related to Fuel or Energy 1984

PROPERTY CLASSIFICATION	Coal or Wood etc.		Fuel Oil		Gasoline		Natural Gas or Other Fuel Gases	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	7	762,063	2	12,303	0	0	37	1,006,073
Institutional	0	0	0	0	0	0	6	35,699
Residential	264	2,823,958	28	309,209	19	51,673	254	3,687,114
Business	1	110,000	0	0	0	0	6	174,626
Mercantile	4	3,728	1	500	0	0	28	954,177
Manufacturing	3	2,099	2	80,000	2	11,938	27	2,989,666
Storage	24	1,490,738	5	41,935	7	26,440	44	2,006,414
Special	38	57,129	62	1,612,189	887	3,009,767	130	1,449,253
Miscellaneous	17	118,070	4	84,600	26	160,824	46	1,285,029
TOTAL	358	5,367,785	104	2,140,736	941	3,260,642	578	13,588,051

PROPERTY CLASSIFICATION	Smoker's Material		Electricity		Lightning		Exposure	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	64	1,399,821	42	669,945	4	208,110	8	20,876
Institutional	23	73,036	14	142,571	0	0	2	8,793
Residential	585	5,876,401	1,112	8,528,814	11	46,443	106	1,894,978
Business	17	72,054	21	242,267	0	0	4	54,673
Mercantile	32	1,129,637	34	1,696,917	1	4,656	9	173,021
Manufacturing	7	1,959,251	31	1,159,946	0	0	4	100,300
Storage	59	533,636	44	1,151,156	2	45,417	187	2,818,447
Special	745	1,293,569	937	2,690,663	7	20,640	407	1,133,887
Miscellaneous	67	173,722	102	3,212,785	24	485,029	340	2,194,700
TOTAL	1,599	12,511,127	2,337	19,495,064	49	810,295	1,067	8,399,675

PROPERTY CLASSIFICATION	Unclassified		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	5	31,429	21	1,570,140	190	5,680,760
Institutional	0	0	2	10,030	47	270,129
Residential	82	604,693	206	5,757,204	2,667	29,580,487
Business	0	0	4	74,604	53	728,224
Mercantile	7	87,912	27	3,220,840	143	7,271,388
Manufacturing	15	50,551,852	17	5,470,874	108	62,325,926
Storage	14	89,928	65	2,654,689	451	10,858,800
Special	109	16,748,708	702	5,357,064	4,024	33,372,869
Miscellaneous	23	610,216	135	3,112,038	784	11,437,013
TOTAL	255	68,724,738	1,179	27,227,483	8,467	161,525,596

Commentary: Electricity was the most commonly identified fuel or energy resulting in 28% of the fires and causing the greatest losses (12%). The average loss in a fire initially fueled by natural gas or other fuel gases was in excess of $23,509.

Property Losses Related to Material First Ignited 1984

PROPERTY CLASSIFICATION	Structural Components		Furniture, Furnishings		Clothing, Textiles		Wood, Paper Products	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	28	1,699,851	6	169,016	8	225,698	39	507,956
Institutional	2	8,793	17	96,615	5	7,160	3	1,800
Residential	444	6,624,032	444	4,075,130	133	1,230,846	218	1,785,387
Business	9	255,360	2	31,854	5	2,903	16	212,027
Mercantile	23	1,582,101	3	8,320	6	224,065	22	852,191
Manufacturing	13	721,452	0	0	0	0	19	104,463
Storage	158	2,826,908	8	10,547	5	1,986	70	2,007,485
Special	86	658,597	96	175,686	49	238,749	202	453,704
Miscellaneous	259	2,213,507	2	2,500	3	6,501	62	111,392
TOTAL	1,022	16,590,601	578	4,569,668	214	1,937,908	651	6,036,405

PROPERTY CLASSIFICATION	Flammable Liquids		Flammable Gases		Chemicals		Agricultural Products	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	38	1,024,789	6	14,507	6	19,044	2	42,879
Institutional	6	63,108	1	100	3	2,061	1	250
Residential	622	5,309,032	57	589,194	78	275,896	34	231,617
Business	1	500	1	59,130	1	30	0	0
Mercantile	29	2,369,098	9	273,158	2	2,500	4	11,566
Manufacturing	25	57,006,694	10	2,835,327	10	119,625	5	278,400
Storage	50	1,139,598	13	1,177,916	7	10,099	18	64,424
Special	1,080	21,897,963	65	390,707	80	348,592	352	1,442,985
Miscellaneous	50	853,636	24	3,009,106	10	38,150	140	1,014,256
TOTAL	1,901	89,664,418	186	8,349,145	197	815,997	556	3,086,377

PROPERTY CLASSIFICATION	Miscellaneous		Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	31	177,498	26	1,799,522	190	5,680,760
Institutional	8	89,742	1	500	47	270,129
Residential	389	2,612,128	248	6,847,225	2,667	29,580,487
Business	12	76,423	6	89,997	53	728,224
Mercantile	31	339,328	14	1,609,061	143	7,271,388
Manufacturing	14	300,473	12	959,492	108	62,325,926
Storage	39	347,501	83	3,272,336	451	10,858,800
Special	1,236	2,143,961	778	5,621,925	4,024	33,372,869
Miscellaneous	63	517,389	171	3,670,576	784	11,437,013
TOTAL	1,823	6,604,443	1,339	23,870,634	8,467	161,525,596

Commentary: When identified, the materials most commonly first ignited were flammable liquids (22%). These fires resulted in 56% of the losses.

Property Losses Related to Initial Detection 1984

PROPERTY CLASSIFICATION	Smoke Alarm/ Detector Device		Heat Alarm/ Detector Device		Automatic Systems		Visual Sighting	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	6	44,263	6	19,080	2	10,000	173	5,586,498
Institutional	18	173,361	4	41,823	2	1,750	23	89,195
Residential	260	2,536,951	9	81,707	15	5,952	2,376	26,924,740
Business	2	4,500	0	0	2	10,867	49	712,857
Mercantile	3	1,233,367	0	0	3	28,000	136	6,010,020
Manufacturing	0	0	1	70,000	8	3,035,440	97	59,209,186
Storage	0	0	0	0	2	1,800	448	10,854,640
Special	1	1	0	0	2	2,232	4,011	33,364,012
Miscellaneous	1	10	1	2,000	3	38,184	775	11,338,122
TOTAL	291	3,992,453	21	214,610	39	3,134,225	8,088	154,089,270

PROPERTY CLASSIFICATION	Unclassified or Unknown		Total	
	NUMBER OF FIRES	LOSSES	NUMBER OF FIRES	LOSSES
Assembly	3	20,919	190	5,680,760
Institutional	0	0	47	270,129
Residential	7	31,137	2,667	29,580,487
Business	0	0	53	728,224
Mercantile	1	1	143	7,271,388
Manufacturing	2	11,300	108	62,325,926
Storage	1	2,360	451	10,858,800
Special	10	6,624	4,024	33,372,869
Miscellaneous	4	58,697	784	11,437,013
TOTAL	28	137,038	8,467	161,525,596

Commentary: The average loss of a fire first detected by visual sighting was $19,054. The average loss of a fire first detected by a smoke alarm/detector was $13,720.

Fires by Method of Fire Control and Extinguishment 1984

METHOD OF FIRE CONTROL AND EXTINGUISHMENT	NO. OF FIRES	LOSSES
Hand Fire Extinguisher		
Water pump tank	251	863,407
Water pressurized	83	621,333
Water soda-acid	3	3,650
Foam	12	319,306
Vapourizing liquid/Halon	3	1,310
CO_2	43	72,016
Dry chemical	387	1,247,926
Multi-purpose dry chemical	35	83,356
Hand fire extinguisher – unclassified	37	107,424
Sub-Total	**854**	**3,319,728**
Standpipe System		
Small hose, 38 mm nominal size, straight stream nozzle	25	132,751
Small hose, 38 mm nominal size, combination nozzle	218	2,251,679
Large hose, 65 mm nominal size, straight stream nozzle	0	0
Large hose, 65 mm nominal size, combination nozzle	6	151,845
Continuous flow hose, less than 38 mm nominal size, straight stream nozzle	4	1,840
Continuous flow hose, less than 38 mm nominal size, combination nozzle	6	31,551
Standpipe system – unclassified	1	300
Sub-Total	**260**	**2,569,966**
"Makeshift" Fire Fighting Aid		
Garden hose	164	305,607
Water bucket	93	145,911
Small water container	110	186,468
Sand bucket	1	300
Dry chemical and scoop	1	700
Baking soda	16	22,605
Smothering by covering	111	163,456
Snow	55	115,241
"Makeshift" fire fighting aid – unclassified	57	97,261
Sub-Total	**608**	**1,037,549**
Fire Department – Water		
Booster hose, 25 mm or less	266	413,480
38 mm hose, 1 hoseline	1,537	5,811,961
38 mm hose, 2 or more hoselines	772	14,044,346
65 mm hose, 1 hoseline	20	301,015
65 mm hose, 2 or more hoselines	69	5,651,569
77 mm or larger hose, 1 or more hoselines	7	1,428,537
Combinations of 38 mm, 65 mm, 77 mm or larger hoselines	278	17,542,787
Portable water deluge set	6	18,102
Fire department – water – unclassified	88	3,042,963
Sub-Total	**3,043**	**48,254,760**

METHOD OF FIRE CONTROL AND EXTINGUISHMENT	NO. OF FIRES	LOSSES
Fire Department – Other Than Water		
Crash-fire foam vehicle, using monitor	4	16,500,001
Crash-fire foam vehicle, using handlines	0	0
Pumper, foam handlines only, via educator	21	1,478,635
Vehicle, combination, foam-dry chemical	0	0
Vehicle, dry chemical, under 450 kg	9	17,265
Vehicle, dry chemical, 450 kg and over	0	0
Fire department – other than water – unclassified	7	50,102,059
Sub-Total	**41**	**68,097,960**
Sprinkler System		
Wet pipe system, central station supervised, standard watchman service, or alarm connection to fire department	17	44,318
Wet pipe system, local alarm only	6	68,514
Dry pipe system, central station supervised, standard watchman service, or alarm connection to fire department	0	0
Dry pipe system, local alarm only	0	0
Pre-action system, central station supervised, standard watchman service, or alarm connection to fire department	0	0
Pre-action system, local alarm only	1	2,000
Engineered systems	0	0
Sprinkler system – unclassified	2	2,050
Sub-Total	**26**	**116,882**
Fixed System Other Than Sprinklers		
Carbon dioxide system	0	0
Dry chemical system	3	53,690
Halon system	2	1,201
Conventional (Protein) foam system	0	0
High expansion foam system	0	0
Foam-water system	0	0
Water spray system	0	0
Fixed system other than sprinklers – unclassified	2	401
Sub-Total	**7**	**55,292**
Burned Out		
Completely burned out before arrival of fire department	183	1,604,335
Incapable of control by fire department on arrival	41	2,904,722
Burned out – unclassified	213	5,265,019
Sub-Total	**437**	**9,774,076**
Miscellaneous		
Portable high expansion foam generator	0	0
CO_2 handhose system, 25 kg or more	1	150
Dry chemical system, handhose system, 25 kg or more	0	0
Miscellaneous – unclassified	92	180,407
Miscellaneous – cannot be determined	3,098	28,118,826
Sub-Total	**3,191**	**28,299,383**
TOTAL	**8,467**	**161,525,596**

Commentary: Over 10% of all fires were extinguished by a hand fire extinguisher. Another 7% were extinguished by makeshift firefighting aids.

Municipal Fire Loss Statistics for the Year Ending December 31, 1984

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 1									
Cnty of Grande Prairie	12,078	94	1,028,697	7.7	85.17	1,075	11,006,651	8.9	91.12
Beaverlodge	1,937	5	67,672	2.5	34.93	50	534,246	2.5	27.58
Hythe	681	—	—	—	—	20	196,657	2.9	28.87
Sexsmith	1,192	7	75,900	5.8	63.67	65	662,947	5.4	55.61
Wembley	1,209	5	12,308	4.1	10.18	30	321,537	2.4	26.59
TOTAL	**17,097**	**111**	**1,184,577**	**6.4**	**69.28**	**1,240**	**12,722,038**	**7.2**	**74.41**
COUNTY 2									
Cnty of Vulcan	3,715	10	194,237	2.6	52.28	171	1,690,232	4.6	45.49
Vulcan	1,507	4	3,382	2.6	2.24	32	474,500	2.1	31.48
Arrowwood	158	—	—	—	—	2	806	1.2	.51
Carmangay	272	2	13,199	7.3	48.52	9	41,272	3.3	15.17
Champion	380	1	500	2.6	1.31	9	50,450	2.3	13.27
Lomond	204	—	—	—	—	6	26,189	2.9	12.83
Milo	117	—	—	—	—	3	1,755	2.5	1.50
TOTAL	**6,353**	**17**	**211,318**	**2.6**	**33.26**	**232**	**2,285,204**	**3.6**	**35.97**
COUNTY 3									
Cnty of Ponoka	7,536	48	242,553	6.3	32.18	458	3,140,078	6.0	41.66
Ponoka	5,221	19	35,315	3.6	6.76	156	2,778,560	2.9	53.21
Rimbey	1,848	7	41,768	3.7	22.60	57	302,441	3.0	16.36
TOTAL	**14,605**	**74**	**319,636**	**5.0**	**21.88**	**671**	**6,221,079**	**4.5**	**42.59**
COUNTY 4									
Cnty of Newell	6,199	48	2,428,909	7.7	391.82	402	46,500,467	6.4	750.12
Brooks	9,421	29	792,598	3.0	84.13	229	3,285,709	2.4	34.87
Bassano	1,200	5	22,439	4.1	18.69	35	201,066	2.9	16.75
Duchess	429	—	—	—	—	10	99,225	2.3	23.12
Rosemary	328	—	—	—	—	5	7,505	1.5	2.28
Tilley	358	—	—	—	—	7	241,276	1.9	67.39
TOTAL	**17,935**	**82**	**3,243,946**	**4.5**	**180.87**	**688**	**50,335,248**	**3.8**	**280.65**
COUNTY 5									
Cnty of Warner	3,460	18	365,272	5.2	105.56	188	1,502,926	5.4	43.43
Warner	481	—	—	—	—	21	212,370	4.3	44.15
Milk River	894	2	41,902	2.2	46.87	26	230,033	2.9	25.73
Raymond	3,145	5	10,623	1.5	3.37	81	552,407	2.5	17.56
Coutts	400	—	—	—	—	16	165,299	4.0	41.32
Stirling	790	2	515	2.5	.65	20	130,176	2.5	16.47
TOTAL	**9,170**	**27**	**418,312**	**2.9**	**45.61**	**352**	**2,793,211**	**3.8**	**30.46**
COUNTY 6									
Cnty of Stettler	5,092	37	215,172	7.2	42.25	335	5,021,959	6.5	98.62
Stettler	5,136	9	65,465	1.7	12.74	178	983,315	3.4	19.14
Big Valley	360	1	1,486	2.7	4.12	14	66,500	3.8	18.47
Botha	190	—	—	—	—	7	27,275	3.6	14.35
Donalda	265	2	11,868	7.5	44.78	7	52,313	2.6	19.74
Gadsby	56	—	—	—	—	4	45,603	7.1	81.43
Rochon Sands	51	—	—	—	—	5	13,207	9.8	25.89
White Sands	2	—	—	—	—	—	—	—	—
TOTAL	**11,152**	**49**	**293,991**	**4.3**	**26.36**	**550**	**6,210,172**	**4.9**	**55.68**
COUNTY 7									
Cnty of Thorhild	3,323	17	235,266	5.1	70.79	146	2,021,724	4.3	60.84
Thorhild	566	—	—	—	—	9	28,448	1.5	5.02
Radway	194	—	—	—	—	3	6,830	1.5	3.52
TOTAL	**4,083**	**17**	**235,266**	**4.1**	**57.62**	**158**	**2,057,002**	**3.8**	**50.37**
COUNTY 8									
Cnty of Forty Mile	3,451	18	431,563	5.2	125.05	157	1,448,813	4.5	41.98
Foremost	617	2	2,539	3.2	4.11	33	250,913	5.3	40.66
Bow Island	1,499	7	7,926	4.6	5.28	39	214,016	2.6	14.27
Burdett	250	—	—	—	—	5	138,153	2.0	55.26
TOTAL	**5,817**	**27**	**442,028**	**4.6**	**75.98**	**234**	**2,051,895**	**4.0**	**35.27**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 9									
Cnty of Beaver	5,347	33	244,679	6.1	45.76	289	1,904,713	5.4	35.62
Ryley	544	2	1,243	3.6	2.28	5	2,963	.9	.54
Tofield	1,560	2	5,901	1.2	3.78	36	382,708	2.3	24.53
Viking	1,238	3	1,291,363	2.4	1,043.10	36	1,610,217	2.9	130.06
Holden	430	2	3,000	4.6	6.97	4	3,488	.9	.81
TOTAL	**9,119**	**42**	**1,546,186**	**4.6**	**169.55**	**370**	**3,904,089**	**4.0**	**42.81**
COUNTY 10									
Cnty of Wetaskiwin	9,026	43	510,623	4.7	56.57	462	3,902,366	5.1	43.23
Crystal Springs	44	—	—	—	—	1	35,600	2.2	80.90
Ma-Me-O Beach	82	—	—	—	—	16	368,956	19.5	449.94
Millet	1,428	2	34,719	1.4	24.31	23	109,263	1.6	7.65
Silver Beach	29	—	—	—	—	—	—	—	—
Grandview	49	—	—	—	—	1	332	2.0	.67
Argentina Beach	3	—	—	—	—	16	560,119	533.3	18,670.63
Poplar Bay	41	—	—	—	—	1	200	2.4	.48
TOTAL	**10,702**	**45**	**545,342**	**4.2**	**50.95**	**520**	**4,976,836**	**4.8**	**46.50**
COUNTY 11									
Cnty of Barrhead	5,517	34	871,158	6.1	157.90	185	3,499,834	3.3	63.43
Barrhead	3,849	12	72,318	3.1	18.78	83	640,837	2.1	16.64
TOTAL	**9,366**	**46**	**943,476**	**4.9**	**100.73**	**268**	**4,140,671**	**2.8**	**44.20**
COUNTY 12									
Cnty of Athabasca	5,936	8	64,007	1.3	10.78	274	2,279,318	4.6	38.39
Athabasca	1,862	6	25,210	3.2	13.53	61	2,778,995	3.2	149.24
Boyle	678	2	2	2.9	—	17	68,581	2.5	10.11
Island Lake	81	—	—	—	—	—	—	—	—
Sunset Beach	36	—	—	—	—	1	2,000	2.7	5.55
Mewatha Beach	27	—	—	—	—	—	—	—	—
South Baptiste	47	—	—	—	—	—	—	—	—
Bondiss	40	—	—	—	—	—	—	—	—
Island Lake South	42	—	—	—	—	—	—	—	—
White Gull	18	—	—	—	—	—	—	—	—
West Baptiste	19	—	—	—	—	—	—	—	—
Whispering Hill	11	—	—	—	—	—	—	—	—
TOTAL	**8,797**	**16**	**89,219**	**1.8**	**10.25**	**353**	**5,128,894**	**4.0**	**58.92**
COUNTY 13									
Cnty of Smoky Lake	2,910	26	124,809	8.9	42.88	192	1,892,896	6.5	65.04
Smoky Lake	1,165	5	49,054	4.2	42.10	33	164,365	2.8	14.10
Vilna	353	1	896	2.8	2.53	9	109,060	2.5	30.89
Warspite	96	—	—	—	—	2	8,023	2.0	8.35
Waskatenau	286	1	1,888	3.4	6.60	3	3,417	1.0	1.19
TOTAL	**4,810**	**33**	**176,647**	**6.8**	**36.72**	**239**	**2,177,761**	**4.9**	**45.27**
COUNTY 14									
Cnty of Lacombe	8,783	101	575,834	11.4	65.56	712	7,387,765	8.1	84.11
Lacombe	5,954	10	144,011	1.6	24.18	156	1,531,235	2.6	25.71
Alix	837	1	675	1.1	.80	16	1,777,534	1.9	212.36
Bentley	874	9	12,698	10.2	14.52	33	587,838	3.7	67.25
Blackfalds	1,614	2	216	1.2	.13	34	30,700	2.1	1.90
Clive	365	—	—	—	—	10	25,896	2.7	7.09
Eckville	842	5	503	5.9	.59	34	169,096	4.0	20.08
Gull Lake	80	1	100	12.5	1.25	13	192,193	16.3	240.20
Mirror	552	1	63,891	1.8	115.74	20	252,941	3.6	45.82
Birchcliff	53	—	—	—	—	1	1,100	1.8	2.07
Half Moon Bay	42	—	—	—	—	—	—	—	—
TOTAL	**19,996**	**130**	**797,928**	**6.5**	**39.90**	**1,029**	**11,956,298**	**5.1**	**59.79**
COUNTY 16									
Cnty of Wheatland	5,542	40	361,951	7.2	65.31	452	4,479,627	8.1	80.83
Strathmore	3,530	15	2,094,789	4.2	593.42	99	3,499,069	2.8	99.12
Gleichen	381	2	31,686	5.2	83.16	13	99,263	3.4	26.05
Cluny	111	—	—	—	—	13	13,517	11.7	12.17
Hussar	175	—	—	—	—	11	1,802,937	6.2	1,030.24
Rockyford	325	3	2,370	9.2	7.29	16	474,894	4.9	146.12
Standard	379	1	2,114	2.6	5.57	9	37,952	2.3	10.01
TOTAL	**10,443**	**61**	**2,492,910**	**5.8**	**238.71**	**613**	**10,407,259**	**5.8**	**99.65**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 17									
Cnty of Mountain View	8,832	86	3,723,180	9.7	421.55	638	10,250,396	7.2	116.05
Didsbury	3,286	12	15,972	3.6	4.86	108	878,165	3.2	26.72
Olds	4,932	24	167,525	4.8	33.96	154	4,259,378	3.1	86.36
Sundre	1,750	8	241,502	4.5	138.00	59	1,033,108	3.3	59.03
Carstairs	1,725	11	174,258	6.3	101.01	57	533,594	3.3	30.93
Cremona	410	1	250	2.4	.60	19	133,553	4.6	32.57
TOTAL	**20,935**	**142**	**4,322,687**	**6.7**	**206.48**	**1,035**	**17,088,194**	**4.9**	**81.62**
COUNTY 18									
Cnty of Paintearth	2,495	19	151,463	7.6	60.70	158	1,181,229	6.3	47.34
Castor	1,123	2	2,704	1.7	2.40	22	78,295	1.9	6.97
Coronation	1,268	3	44,269	2.3	34.91	48	1,894,816	3.7	149.43
Halkirk	160	1	80,000	6.2	500.00	7	82,776	4.3	51.73
TOTAL	**5,046**	**25**	**278,436**	**4.9**	**55.17**	**235**	**3,237,116**	**4.6**	**64.15**
COUNTY 19									
Cnty of St. Paul	6,352	43	216,273	6.7	34.04	412	3,207,685	6.4	50.49
St. Paul	4,963	11	27,906	2.2	5.62	160	3,116,999	3.2	62.80
Elk Point	1,113	7	38,958	6.2	35.00	33	215,652	2.9	19.37
TOTAL	**12,428**	**61**	**283,137**	**4.9**	**22.78**	**605**	**6,540,336**	**4.8**	**52.62**
COUNTY 20									
Cnty of Strathcona	48,024	145	1,768,111	3.0	36.81	2,518	19,936,640	5.2	41.51
Ft. Saskatchewan	12,474	14	687,928	1.1	55.14	266	9,969,311	2.1	79.92
TOTAL	**60,498**	**159**	**2,456,039**	**2.6**	**40.59**	**2,784**	**29,905,951**	**4.6**	**49.43**
COUNTY 21									
Cnty of Two Hills	3,380	30	115,788	8.8	34.25	190	1,156,053	5.6	34.20
Two Hills	1,330	3	40,702	2.2	30.60	18	62,925	1.3	4.73
Derwent	142	1	1,184	7.0	8.33	3	14,245	2.1	10.03
Myrnam	397	—	—	—	—	8	60,675	2.0	15.28
Willingdon	386	—	—	—	—	10	65,552	2.5	16.98
Hairy Hill	72	3	554,982	41.6	7,708.08	3	554,982	4.1	770.80
TOTAL	**5,707**	**37**	**712,656**	**6.4**	**124.87**	**232**	**1,914,432**	**4.0**	**33.54**
COUNTY 22									
Cnty of Camrose	7,564	50	344,596	6.6	45.55	484	3,223,906	6.3	42.62
Bashaw	875	2	26,924	2.2	30.77	24	150,710	2.7	17.22
Bawlf	368	1	495	2.7	1.34	18	1,642,663	4.8	446.37
Bittern Lake	153	—	—	—	—	3	33,815	1.9	22.10
Edberg	150	—	—	—	—	3	69,208	2.0	46.13
Ferintosh	155	—	—	—	—	2	6,000	1.2	3.87
Hay Lakes	318	—	—	—	—	8	16,282	2.5	5.12
New Norway	309	6	5,696	19.4	18.43	9	7,105	2.9	2.29
Rosalind	197	3	58,764	15.2	298.29	5	63,869	2.5	32.42
TOTAL	**10,089**	**62**	**436,475**	**16.1**	**43.26**	**556**	**5,213,558**	**5.5**	**51.67**
COUNTY 23									
Cnty of Red Deer	13,664	116	466,146	8.4	34.11	930	6,386,976	6.8	46.74
Innisfail	5,435	13	234,853	2.3	43.21	140	1,736,658	2.5	31.95
Sylvan Lake	3,779	12	78,873	3.1	20.87	112	982,796	2.9	26.00
Bowden	1,021	4	41,168	3.9	40.32	29	128,556	2.8	12.59
Delburne	555	2	517	3.6	.93	15	49,227	2.7	8.86
Elnora	251	2	7,164	7.9	28.54	6	46,847	2.3	18.66
Penhold	1,588	3	7,099	1.8	4.47	39	1,032,646	2.4	65.02
Norglenwold	113	1	1,500	8.8	13.27	—	—	—	—
TOTAL	**26,406**	**153**	**837,320**	**5.7**	**31.71**	**1,271**	**10,363,706**	**4.8**	**39.41**
COUNTY 24									
Cnty of Vermilion River	7,533	29	461,469	3.8	61.25	508	4,259,463	6.7	56.54
Kitscoty	585	1	1,760	1.7	3.00	8	6,429	1.3	1.09
Vermilion	3,769	13	54,205	3.4	14.38	124	1,433,868	3.2	38.04
Dewberry	190	2	324,028	10.5	1,705.41	7	992,866	3.6	522.57
Marwayne	500	5	6,384	10.0	12.76	16	46,200	3.2	9.24
Paradise Valley	188	—	—	—	—	3	29,981	1.5	15.94
TOTAL	**12,765**	**50**	**847,846**	**3.9**	**66.41**	**666**	**6,768,827**	**5.2**	**53.02**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 25									
Cnty of Leduc	13,296	72	650,711	5.4	48.94	725	8,667,868	5.4	65.19
Calmar	1,137	2	3,950	1.7	3.47	30	219,765	2.6	19.32
Devon	3,931	10	23,075	2.5	5.87	65	588,840	1.6	14.97
Breton	548	—	—	—	—	11	65,413	2.0	11.93
New Sarepta	461	—	—	—	—	13	104,780	2.8	22.72
Thorsby	737	1	336	1.3	.45	27	716,263	3.6	97.18
Warburg	552	1	5,948	1.8	10.77	14	61,642	2.5	11.16
Itaska Beach	6	—	—	—	—	2	176,614	33.3	2,943.56
Golden Days	40	—	—	—	—	1	195	2.5	.48
Sundance Beach	14	—	—	—	—	1	10,651	7.1	76.07
Beaumont	3,468	1	265	.2	.07	26	104,765	.7	3.02
TOTAL	**24,190**	**87**	**684,285**	**3.5**	**28.28**	**915**	**10,716,796**	**3.7**	**44.30**
COUNTY 26									
Cnty of Lethbridge	8,229	77	879,294	9.3	106.85	667	5,023,899	8.1	61.05
Coaldale	4,768	19	176,157	3.9	36.94	108	1,198,361	2.2	25.13
Picture Butte	1,562	3	631	1.9	.40	36	108,113	2.3	6.92
Barons	334	—	—	—	—	6	25,372	1.7	7.59
Nobleford	547	2	1,251	3.6	2.28	14	18,819	2.5	3.44
Coalhurst	1,247	4	37,466	3.2	30.04	25	258,482	2.0	20.72
TOTAL	**16,687**	**105**	**1,094,799**	**6.2**	**65.60**	**856**	**6,633,046**	**5.1**	**39.74**
COUNTY 27									
Cnty of Minburn	4,041	18	212,170	4.4	52.50	279	1,802,491	6.9	44.60
Minburn	143	—	—	—	—	2	101	1.3	.07
Mannville	788	2	863	2.5	1.09	17	112,032	2.1	14.21
Vegreville	5,251	15	70,554	2.8	13.43	126	624,773	2.3	11.89
Innisfree	255	—	—	—	—	2	1,999	.7	.78
Lavoy	134	2	26,330	14.9	196.49	6	29,397	4.4	21.93
TOTAL	**10,612**	**37**	**309,917**	**3.4**	**29.20**	**432**	**2,570,793**	**4.0**	**24.22**
COUNTY 28									
Cnty of Lac Ste. Anne	7,722	59	504,052	7.6	65.27	384	3,826,759	4.9	49.55
Onoway	669	3	34,519	4.4	51.59	22	186,977	3.2	27.94
Mayerthorpe	1,475	2	51	1.3	.03	31	679,679	2.1	46.07
Alberta Beach	510	4	167,893	7.8	329.20	36	364,630	7.0	71.49
Castle Island	5	—	—	—	—	—	—	—	—
Sunset Point	95	—	—	—	—	3	9,583	3.1	10.08
Sangudo	405	—	—	—	—	11	50,683	2.7	12.51
West Cove	19	—	—	—	—	3	107,369	15.7	565.10
Yellowstone	86	—	—	—	—	1	1,000	1.1	1.16
Ross Haven	59	—	—	—	—	3	75,825	5.0	128.51
Val Quentin	107	—	—	—	—	3	3,359	2.8	3.13
Silver Sands	72	—	—	—	—	3	4,051	4.1	5.62
Nakamun Park	11	—	—	—	—	—	—	—	—
Southview	33	—	—	—	—	—	—	—	—
TOTAL	**11,268**	**68**	**706,515**	**6.0**	**62.70**	**500**	**5,309,915**	**4.4**	**47.12**
COUNTY 29									
Cnty of Flagstaff	4,507	43	243,854	9.5	54.10	424	2,542,789	9.4	56.41
Sedgewick	923	1	400	1.0	.43	14	72,309	1.5	7.83
Alliance	208	1	5,250	4.8	25.24	10	17,528	4.8	8.42
Daysland	709	4	17,094	5.6	24.11	20	101,082	2.8	14.25
Hardisty	680	13	12,708	19.1	18.68	42	206,126	6.1	30.31
Forestburg	956	1	1,500	1.0	1.56	22	45,440	2.3	4.75
Galahad	182	—	—	—	—	5	19,409	2.7	10.66
Heisler	212	1	19,200	4.7	90.56	8	89,127	3.7	42.04
Killam	1,001	—	—	—	—	23	—	—	—
Lougheed	261	—	—	—	—	5	17,133	1.9	6.56
Strome	281	—	—	—	—	17	459,584	6.0	163.55
TOTAL	**9,920**	**64**	**300,006**	**6.4**	**30.24**	**590**	**3,930,842**	**5.9**	**39.62**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
COUNTY 30									
Cnty of Lamont	4,687	18	233,733	3.8	49.86	247	2,020,963	5.2	43.11
Lamont	1,673	1	13,889	.5	8.30	20	350,751	1.1	20.96
Chipman	281	1	10,000	3.5	35.58	9	128,233	3.2	45.63
Mundare	655	1	25,170	1.5	38.42	10	50,070	1.5	7.64
Andrew	569	1	1,747	1.7	3.07	27	789,865	4.7	138.81
Bruderheim	1,238	2	2,688	1.6	2.17	28	233,300	2.2	18.84
TOTAL	**9,103**	**24**	**287,227**	**2.6**	**31.55**	**341**	**3,573,182**	**3.7**	**39.25**
COUNTY 31									
Cnty of Parkland	23,950	100	1,713,522	4.1	71.54	1,527	16,616,877	6.3	69.38
Stony Plain	5,291	21	60,184	3.9	11.37	75	293,033	1.4	5.53
Betula Beach	8	—	—	—	—	1	744	12.5	9.30
Edmonton Beach	329	—	—	—	—	8	157,968	2.4	48.01
Entwistle	468	—	—	—	—	5	75,871	1.0	16.21
Kapasiwin	4	—	—	—	—	3	3	75.0	.07
Lakeview	20	—	—	—	—	—	—	—	—
Point Alison	3	—	—	—	—	2	6,050	66.6	201.66
Seba Beach	124	—	—	—	—	5	50,798	4.0	40.96
Spruce Grove	11,569	36	228,539	3.1	19.75	349	1,871,300	3.0	16.17
Drayton Valley	4,924	13	17,279	2.6	3.50	182	810,060	3.6	16.45
Wabamun	705	2	3,883	2.8	5.50	11	73,637	1.5	10.44
TOTAL	**47,395**	**172**	**2,023,407**	**3.6**	**42.69**	**2,168**	**19,956,341**	**4.5**	**42.10**
M.D. 6									
M.D. of Cardston	4,292	34	308,909	7.9	71.97	269	2,500,446	6.2	58.25
Cardston	3,546	14	12,209	3.9	3.44	114	839,606	3.2	23.67
Magrath	1,576	6	4,195	3.8	2.66	62	210,470	3.9	13.35
Glenwood	282	—	—	—	—	9	13,582	3.1	4.81
Hillspring	220	—	—	—	—	3	19,018	1.3	8.64
TOTAL	**9,916**	**54**	**325,313**	**5.4**	**32.80**	**457**	**3,583,122**	**4.6**	**36.13**
M.D. 9									
M.D. of Pincher Creek	2,970	23	234,775	7.7	79.04	183	3,089,061	6.1	104.00
Pincher Creek	3,712	9	71,470	2.4	19.25	92	815,626	2.4	21.97
Cowley	304	—	—	—	—	6	7,302	1.9	2.40
TOTAL	**6,986**	**32**	**306,245**	**4.5**	**43.83**	**281**	**3,911,989**	**4.0**	**55.99**
M.D. 14									
M.D. of Taber	5,637	56	631,749	9.9	112.07	454	3,741,702	8.0	66.37
Taber	6,384	32	84,510	5.0	13.23	205	8,295,275	3.2	129.93
Vauxhall	1,076	2	557	1.8	.51	24	440,237	2.2	40.91
Grassy Lake	211	—	—	—	—	9	34,943	4.2	16.56
Barnwell	383	1	835	2.6	2.18	2	15,835	.5	4.13
TOTAL	**13,691**	**91**	**717,651**	**6.6**	**52.41**	**694**	**12,527,992**	**5.0**	**91.50**
M.D. 26									
M.D. of Willow Creek	4,534	43	514,042	9.4	113.37	418	2,459,181	9.2	54.23
Stavely	548	3	3,542	5.4	6.46	11	473,160	2.0	86.34
Nanton	1,671	2	1,525	1.1	.91	44	1,151,547	2.6	68.91
Claresholm	3,493	7	23,592	2.0	6.75	160	1,679,516	4.5	48.08
Ft. Macleod	3,139	15	62,134	4.7	19.79	108	652,270	3.4	20.77
Granum	399	11	2,510,089	27.5	6,290.94	31	4,394,833	7.7	1,101.46
TOTAL	**13,784**	**81**	**3,114,924**	**5.8**	**225.98**	**772**	**10,810,507**	**5.6**	**78.42**
M.D. 31									
M.D. of Foothills	9,685	52	961,474	5.3	99.27	517	5,985,495	5.3	61.80
High River	5,114	9	102,017	1.7	19.94	98	1,456,924	1.9	28.48
Black Diamond	1,545	10	111,046	6.4	71.87	33	290,334	2.1	18.79
Okotoks	4,919	9	175,762	1.8	35.73	83	636,897	1.6	12.94
Blackie	343	—	—	—	—	4	40,079	1.1	11.68
Cayley	232	—	—	—	—	1	37,000	.4	15.94
Turner Valley	1,337	—	—	—	—	28	497,890	2.0	37.23
Longview	291	1	2,117	3.4	7.27	4	112,418	1.3	38.63
TOTAL	**23,466**	**81**	**1,352,416**	**3.4**	**57.63**	**768**	**9,057,037**	**3.2**	**38.59**
M.D. 34									
M.D. of Acadia	604	1	1,914	1.6	3.16	18	172,941	2.9	28.63
Empress	254	—	—	—	—	8	76,338	3.1	30.05
TOTAL	**858**	**1**	**1,914**	**1.1**	**2.23**	**26**	**249,279**	**3.0**	**29.05**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
M.D. 44									
M.D. of Rocky View	16,703	152	1,878,226	9.1	112.44	1,670	13,899,013	9.9	83.21
Airdrie	10,431	22	35,621	2.1	3.41	118	1,148,818	1.1	11.01
Beiseker	648	6	178,983	9.2	276.20	26	434,084	4.0	66.98
Cochrane	4,044	11	11,305	2.7	2.79	106	1,331,754	2.6	32.93
Crossfield	1,428	2	1,897	1.4	1.32	17	353,625	1.1	24.76
Irricana	726	—	—	—	—	13	44,230	1.7	6.09
Chestermere Lake	550	3	134,700	5.4	244.90	13	277,301	2.3	50.41
TOTAL	**34,530**	**196**	**2,240,732**	**5.6**	**64.89**	**1,963**	**17,488,825**	**5.6**	**50.64**
M.D. 47									
M.D. of Starland	2,076	13	118,122	6.2	56.89	136	1,017,030	6.5	48.98
Morrin	267	—	—	—	—	5	109,777	1.8	41.11
Delia	239	1	17,400	4.1	72.80	7	151,675	2.9	63.46
Munson	148	—	—	—	—	2	1,949	1.3	1.31
Rumsey	93	2	7,708	21.5	82.88	5	42,582	5.3	45.78
TOTAL	**2,823**	**16**	**143,230**	**5.6**	**50.73**	**155**	**1,323,013**	**5.4**	**46.86**
M.D. 48									
M.D. of Kneehill	4,831	30	346,092	6.2	71.63	310	3,364,373	6.4	69.64
Three Hills	3,539	5	16,137	1.4	4.55	74	167,320	2.0	4.72
Acme	492	—	—	—	—	10	217,714	2.0	44.25
Trochu	880	3	1,290	3.4	1.46	23	146,528	2.6	16.65
Carbon	438	—	—	—	—	4	2,624	.9	.59
Linden	461	1	670	2.1	1.45	8	2,087	1.7	.45
Torrington	230	—	—	—	—	13	79,224	5.6	34.44
TOTAL	**10,871**	**39**	**364,189**	**3.5**	**33.50**	**442**	**3,979,870**	**4.0**	**36.60**
M.D. 52									
M.D. of Provost	2,611	29	205,868	11.1	78.84	295	2,303,737	11.2	88.23
Provost	1,734	11	20,585	6.3	11.87	76	1,443,837	4.3	83.26
Amisk	212	—	—	—	—	2	8,400	.9	3.96
Czar	184	—	—	—	—	6	8,386	3.2	4.55
Hughenden	251	2	1,029	7.9	4.09	9	43,250	3.5	17.23
TOTAL	**4,992**	**42**	**227,482**	**8.4**	**45.56**	**388**	**3,807,610**	**7.7**	**76.27**
M.D. 61									
M.D. of Wainwright	3,874	35	850,612	9.0	219.56	338	3,056,505	8.7	78.89
Wainwright	4,597	18	127,365	3.9	27.70	156	861,937	3.3	18.74
Irma	475	1	125,000	2.1	263.15	22	207,867	4.6	43.76
Chauvin	350	3	252,112	8.5	720.32	13	1,081,701	3.7	309.05
Edgerton	389	1	35,526	2.5	91.32	20	225,635	5.1	58.00
TOTAL	**9,685**	**58**	**1,390,615**	**5.9**	**143.58**	**549**	**5,433,645**	**5.6**	**56.10**
M.D. 87									
M.D. of Bonnyville	9,409	64	343,653	6.8	36.52	426	3,499,631	4.5	37.19
Bonnyville	4,786	17	114,138	3.5	23.84	139	2,344,058	2.9	48.97
Cold Lake	2,515	8	146,360	3.1	58.19	67	429,398	2.6	17.07
Grand Centre	3,195	8	424,210	2.5	132.77	115	2,173,696	3.5	68.03
Bonnyville Beach	60	1	1,176	16.6	19.60	3	21,356	5.0	35.59
Glendon	455	2	11,360	4.3	24.96	11	22,551	2.4	4.95
Pelican Narrows	52	—	—	—	—	2	1,470	3.8	2.82
TOTAL	**20,472**	**100**	**1,040,897**	**4.8**	**50.84**	**763**	**8,492,160**	**3.7**	**41.48**
M.D. 90									
M.D. of Sturgeon	13,979	65	752,575	4.6	53.83	977	13,064,193	6.9	93.45
Morinville	5,273	11	109,451	2.0	20.75	79	626,018	1.4	11.87
Gibbons	2,620	6	30,556	2.2	11.66	39	243,681	1.4	9.30
Sandy Beach	78	—	—	—	—	1	22,000	1.2	28.20
Bon Accord	1,425	—	—	—	—	18	104,031	1.2	7.30
Legal	1,042	4	73,807	3.8	70.83	24	176,840	2.3	16.97
Redwater	2,197	2	59,000	.9	26.85	35	402,324	1.5	18.31
TOTAL	**26,614**	**88**	**1,025,389**	**3.3**	**38.52**	**1,173**	**14,639,087**	**4.4**	**55.00**
M.D. 92									
M.D. of Westlock	7,059	51	576,895	7.2	81.72	321	4,643,833	4.5	65.78
Westlock	4,432	12	611,082	2.7	137.87	75	1,734,979	1.6	39.14
Clyde	376	—	—	—	—	14	94,643	3.7	25.17
TOTAL	**11,867**	**63**	**1,187,977**	**5.3**	**100.10**	**410**	**6,473,455**	**3.4**	**54.55**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
M.D. 130									
M.D. of Smoky River	2,858	17	218,664	5.9	76.50	226	2,296,017	7.9	80.33
Falher	1,188	3	19,239	2.5	16.19	37	517,422	3.1	43.55
Girouxville	325	4	18,860	12.3	58.03	19	475,852	5.8	146.41
McLennan	1,176	2	82,000	1.7	69.72	40	934,291	3.4	79.44
Donnelly	382	2	47,370	5.2	124.00	28	214,669	7.3	56.19
TOTAL	**5,929**	**28**	**386,133**	**4.7**	**65.12**	**350**	**4,438,251**	**5.9**	**74.85**
M.D. 133									
M.D. of Spirit River	891	12	457,549	13.4	513.52	124	1,077,918	13.9	120.97
Spirit River	1,104	5	41,369	4.5	37.47	41	181,652	3.7	16.45
Rycroft	734	2	46,497	2.7	63.34	18	657,693	2.4	89.60
TOTAL	**2,729**	**19**	**545,415**	**6.9**	**199.85**	**183**	**1,917,263**	**6.7**	**70.25**
M.D. 135									
M.D. of Peace River	1,520	13	213,329	8.5	140.34	192	1,522,000	12.6	100.13
Berwyn	674	1	172	1.4	.25	6	155,458	.8	23.06
Grimshaw	2,488	5	521,733	2.0	209.69	73	964,677	2.9	38.77
Peace River	6,043	29	82,423	4.7	13.63	272	4,563,179	4.5	75.51
TOTAL	**10,725**	**48**	**817,657**	**4.4**	**76.23**	**543**	**7,205,314**	**5.0**	**67.18**
M.D. 136									
M.D. of Fairview	1,889	25	161,599	13.2	85.54	182	1,612,043	9.6	85.33
Fairview	3,234	3	3,267	.9	1.01	110	3,903,943	3.4	120.71
TOTAL	**5,123**	**28**	**164,866**	**5.4**	**32.18**	**292**	**5,515,986**	**5.6**	**107.67**
I.D. #1	4,703	66	500,803	14.0	106.48	568	5,778,575	12.0	122.86
Irvine	360	1	500	2.7	1.38	10	85,665	2.7	23.79
Redcliff	3,814	14	138,496	3.6	36.31	143	748,369	3.7	19.62
TOTAL	**8,877**	**81**	**639,799**	**9.1**	**72.07**	**721**	**6,612,609**	**8.1**	**74.49**
I.D. #4	176	1	1,900	5.6	10.79	12	131,037	6.8	74.45
I.D. #5	122	—	—	—	—	—	—	—	—
I.D. #6	119	3	735,773	25.2	6,182.96	60	1,361,774	50.4	1,144.34
Crowsnest Pass	7,577	18	74,380	2.3	9.81	251	3,389,802	3.3	44.73
TOTAL	**7,696**	**21**	**810,153**	**2.7**	**105.26**	**311**	**4,751,576**	**4.0**	**61.74**
I.D. #7	1,191	11	71,055	9.2	59.65	99	1,546,081	8.3	129.81
I.D. #8	1,158	7	32,596	6.0	28.14	102	2,831,724	8.8	244.53
Ghost Lake	42	—	—	—	—	5	9,353	11.9	22.26
Canmore	4,012	11	92,776	2.7	23.12	94	1,040,681	2.3	25.93
TOTAL	**5,212**	**18**	**125,372**	**3.4**	**24.05**	**201**	**3,881,758**	**3.8**	**74.47**
I.D. #9	949	2	5,000	2.1	5.26	107	1,370,385	11.3	144.40
Banff	6,000	8	79,428	1.3	13.24	169	3,388,839	2.8	56.48
TOTAL	**6,949**	**10**	**84,428**	**1.4**	**12.15**	**276**	**4,759,224**	**4.0**	**68.49**
I.D. #10	9,201	49	432,597	5.3	47.01	444	5,928,115	4.8	64.42
Rocky Mountain House	5,126	8	76,850	1.5	14.99	138	1,745,956	2.6	34.06
Caroline	431	3	756	6.9	1.75	11	38,720	2.5	8.98
TOTAL	**14,758**	**60**	**510,203**	**4.0**	**34.57**	**593**	**7,712,791**	**4.0**	**52.26**
I.D. #12	25	1	39,627	40.0	1,585.08	58	671,809	232.0	2,687.23
Jasper	3,945	14	577,113	3.5	146.29	111	1,267,390	2.8	32.13
TOTAL	**3,970**	**15**	**616,740**	**3.8**	**155.35**	**169**	**1,939,199**	**4.3**	**48.85**
I.D. #13	36	1	600	27.7	16.66	8	82,908	22.2	230.30
I.D. #14	8,119	61	1,133,151	7.5	139.56	614	16,492,954	7.5	203.14
Wildwood	450	—	—	—	—	10	74,197	2.2	16.48
Evansburg	784	6	142,586	7.6	181.86	24	282,886	3.0	36.08
Edson	7,110	17	346,493	2.3	48.73	165	1,621,483	2.3	22.80
Hinton	8,904	25	81,334	2.8	9.13	331	3,697,569	3.7	41.52
TOTAL	**25,367**	**109**	**1,703,564**	**4.2**	**67.15**	**1,144**	**22,169,089**	**4.5**	**87.39**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984 POPULATION	1984 FIRE COUNT	1984 AMOUNT OF LOSS	1984 FIRE RATE	1984 PER CAPITA LOSS	10 YEAR TOTAL FIRE COUNT	10 YEAR TOTAL AMOUNT OF LOSS	10 YEAR AVERAGE FIRE RATE	10 YEAR AVERAGE PER CAPITA LOSS
I.D. #15	2,670	11	299,066	4.1	112.00	207	3,159,904	7.7	118.34
Whitecourt	5,408	13	73,960	2.4	13.67	251	2,162,172	4.6	39.98
Ft. Assiniboine	214	1	2,513	4.6	11.74	16	89,419	7.4	41.78
TOTAL	**8,292**	**25**	**375,539**	**3.0**	**45.28**	**474**	**5,411,495**	**5.7**	**65.26**
I.D. #16	5,350	43	734,595	8.0	137.30	483	17,155,927	9.0	320.67
Valleyview	2,232	8	35,137	3.5	15.74	74	944,269	3.3	42.30
Fox Creek	1,978	1	45,000	.5	22.75	39	1,269,998	1.9	64.20
Grande Cache	4,624	5	108,123	1.0	23.38	97	798,768	2.0	17.27
TOTAL	**14,184**	**57**	**922,855**	**4.0**	**65.06**	**693**	**20,168,962**	**4.8**	**142.19**
I.D. #17	11,699	139	3,692,520	11.8	315.62	913	18,625,386	7.8	159.20
High Prairie	2,580	12	875,131	4.6	339.19	111	5,612,626	4.3	217.54
Swan Hills	2,497	4	37,068	1.6	14.84	48	754,370	1.9	30.21
Kinuso	285	3	11,421	10.5	40.07	7	76,155	2.4	26.72
Slave Lake	4,838	15	231,567	3.1	47.86	146	1,009,529	3.0	20.86
Nampa	435	—	—	—	—	8	963,471	1.8	221.48
TOTAL	**22,334**	**173**	**4,847,707**	**7.7**	**217.05**	**1,233**	**27,041,537**	**5.5**	**121.07**
I.D. #18	9,605	95	55,176,701	9.8	5,744.58	812	122,734,407	8.4	1,277.81
Lac La Biche	2,242	13	19,404	5.7	8.65	91	727,867	4.0	32.46
Plamondon	271	1	2,750	3.6	10.14	5	1,073,303	1.8	396.05
TOTAL	**12,118**	**109**	**55,198,855**	**8.9**	**4,555.11**	**908**	**124,535,577**	**7.4**	**1,027.69**
I.D. #19	1,757	9	49,190	5.1	27.99	149	2,381,479	8.4	135.54
Wanham	266	—	—	—	—	21	127,728	7.8	48.01
Eaglesham	201	1	864	4.9	4.29	4	11,227	1.9	5.58
TOTAL	**2,224**	**10**	**50,054**	**4.4**	**22.50**	**174**	**2,520,434**	**7.8**	**113.32**
I.D. #20	3,000	24	197,327	8.0	65.77	131	1,450,678	4.3	48.35
I.D. #21	2,979	12	219,460	4.0	73.66	160	2,230,128	5.3	74.86
Hines Creek	529	1	1,200	1.8	2.26	29	830,616	5.4	157.01
TOTAL	**3,508**	**13**	**220,660**	**3.7**	**62.90**	**189**	**3,060,744**	**5.3**	**87.25**
I.D. #22	4,250	29	313,821	6.8	73.84	234	2,931,691	5.5	68.98
Manning	1,262	1	5,102	.7	4.04	35	317,217	2.7	25.13
TOTAL	**5,512**	**30**	**318,923**	**5.4**	**57.85**	**269**	**3,248,908**	**4.8**	**58.94**
I.D. #23	5,837	56	1,213,642	9.5	207.92	509	9,074,645	8.7	155.46
High Level	2,806	8	275,511	2.8	98.18	89	3,069,886	3.1	109.40
Rainbow Lake	856	2	60,965	2.3	71.22	19	1,332,531	2.2	155.66
TOTAL	**9,499**	**66**	**1,550,118**	**6.9**	**163.18**	**617**	**13,477,062**	**6.4**	**141.87**
I.D. #24	188	1	2,744	5.3	14.59	6	5,262,633	3.1	2,799.27
INDIAN RESERVES	43,806	99	2,892,983	2.2	66.04	772	12,238,769	1.8	27.94
S.A. #2	2,565	19	226,487	7.4	88.29	160	1,681,659	6.2	65.56
Hanna	3,036	6	138,121	1.9	45.49	73	877,096	2.4	28.88
TOTAL	**5,601**	**25**	**364,608**	**4.4**	**65.09**	**233**	**2,558,755**	**4.1**	**45.68**
S.A. #3	1,701	8	95,001	4.7	55.85	96	1,166,726	5.6	68.59
Cereal	252	—	—	—	—	4	129,909	1.5	51.55
Oyen	1,008	—	—	—	—	26	147,969	2.5	14.67
Youngstown	297	2	45,846	6.7	154.36	6	69,018	2.0	23.23
TOTAL	**3,258**	**10**	**140,847**	**3.0**	**43.23**	**132**	**1,513,622**	**4.0**	**46.45**
S.A. #4	1,776	15	111,123	8.4	62.56	110	1,338,206	6.1	75.34
Veteran	318	—	—	—	—	12	1,865,554	3.7	586.65
Consort	632	1	8,809	1.5	13.93	26	772,465	4.1	122.22
TOTAL	**2,726**	**16**	**119,932**	**5.8**	**43.99**	**148**	**3,976,225**	**5.4**	**145.86**

Municipal Fire Loss Statistics for the Year Ending December 31, 1984 (cont.)

MUNICIPALITY	1984					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPU-LATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
CALGARY	619,814	2,006	28,313,119	3.2	45.68	29,348	143,899,126	4.7	23.21
CAMROSE	12,751	21	50,533	1.6	3.96	287	1,636,818	2.2	12.83
DRUMHELLER	6,671	17	49,213	2.5	7.37	214	2,483,022	3.2	37.22
EDMONTON	560,085	1,464	8,268,632	2.6	14.76	17,239	134,141,412	3.0	23.95
FT. McMURRAY	35,352	118	2,224,839	3.3	62.93	1,711	10,961,114	4.8	31.00
GRANDE PRAIRIE	24,411	97	718,838	3.9	29.44	1,570	7,465,193	6.4	30.58
LEDUC	12,471	24	229,064	1.9	18.36	289	2,399,536	2.3	19.24
LETHBRIDGE	58,586	222	904,639	3.7	15.44	2,975	16,243,100	5.0	27.72
LLOYDMINSTER	9,226	25	465,974	2.7	50.50	255	3,714,955	2.8	40.27
MEDICINE HAT	41,493	164	2,370,438	3.9	57.12	2,505	10,909,899	6.0	26.29
RED DEER	51,070	169	1,799,374	3.3	35.23	1,939	13,473,265	3.7	26.38
ST. ALBERT	35,529	58	405,647	1.6	11.41	1,405	6,228,388	3.9	17.53
WETASKIWIN	10,022	11	85,341	1.0	8.51	224	7,055,689	2.2	70.40

Glossary of Terminology

Section Three

Glossary of Terminology

ACT OR OMISSION – the human element by which someone has done something (an act) or failed to do something (an omission). The act or omission indicates whether the fire was deliberate, neglectful or accidental.

Incendiary or Set Fires – includes arson, suspected incendiarism, riot, mischief or vandalism.

Misuse of Source of Ignition – includes disposal of smoker's material, thawing, inadequate control of an open fire, children playing, welding or cutting too close to combustible material or torch too close to combustible material.

Misuse of Material Ignited – includes fuel spilled accidentally, improper fuelling technique, cleaning or washing parts, improper container, overheating cooking oil, combustible placed too close to heat, and improper storage.

Mechanical and Electrical Failure or Malfunction – includes part failure, automatic or manual control failure, electrical short circuit and part worn out.

Construction, Design or Installation Deficiency – includes construction or design deficiency, installation too close to a combustible, other installation deficiency and overfusing.

Misuse of Equipment – overfuelling, includes any misuse of equipment or tools.

Human Failing – includes person asleep, temporary loss of judgement, physical disability, panic, influence of alcohol or drugs and ignorance of hazard.

AREA OF ORIGIN – the area of a building or vehicle where the fire started.

Means of Egress – the area allowing an individual transit or a way of going out. Includes hallway, stairway, escalator, lobby and elevator.

Assembly, Sales Area – areas where groups of people gather. Includes theatre, arena, lounge, living room, sales or show room, library, museum and sports facility.

Function Area – the area where a mode of action or activity is undertaken. Includes sleeping area, dining area, bar, washroom, office, laboratory, printing and photographic reproduction, kitchen, laundry room, operating room, performance area and manufacturing area.

Storage Area – the area inside a building where items are stored. Includes product storage area, closet, equipment area, records storage area, shipping and receiving area, trash and rubbish area, vehicle garage and agricultural product storage.

Service Facilities – conveyance items such as dumbwaiters, service shafts, laundry and garbage chutes, heating and cooking ducts and chimneys or gas vents.

Structural Area – includes crawl space, balcony, ceiling and floor assembly, ceiling and roof assembly, wall assembly, exterior wall or exterior roof and awning or canopy.

Vehicle Area – includes engine area, fuel area, control area, passenger area and cargo area.

Outside Area – includes open area such as lawn, field or park, court, patio, parking area, outdoor storage area and trash or rubbish area.

FUEL OR ENERGY – is the fuel associated with the source of ignition. Includes coal, wood, fuel oil, gasoline, natural gas or other fuel gases, smoker's material, electricity, lightning or exposures.

INJURIES – a person accidentally injured as a direct result of a fire (a member of the fire department accidentally injured while in the process of fighting a fire or injured as a result of an accident while en route to or returning from the scene of an actual fire is considered a fire action injury.)

Minor Injury – an injury that does not require hospitalization of over a 24-hour period or absence from work of not more than one full day.

Light Injury – an injury that requires admission to a hospital of over 24 to 48 hours and/or absence from work for a period of two to fifteen days.

Serious Injury – an injury that requires admission to a hospital for a period of more than 48 hours and/or an absence from work for a period exceeding fifteen days.

MATERIAL FIRST IGNITED – the actual material that ignites and creates the fire condition.

Structural Components, Finish Materials – includes roof covering, wall covering, floor covering, structural component, ceiling covering and insulation.

Furniture, Furnishings – includes furniture, ironing board, mattress, bedding, drapery and broom, mop or brush.

Clothing, Textiles – includes clothing, fabric, fur and tarpaulin.

Wood, Paper Products – includes wood, wood shavings, paper, cardboard and paper stock.

Flammable Liquids – includes gasoline, fuel oil, flammable liquids, paint, varnish, tar, asphalt, polish and wax.

Flammable Gases – includes natural gas, propane, anaesthetic gas, acetylene and hydrogen.

Chemicals – includes starch, flour, cellulose nitrate, plastic, oxidizing material, magnesium and alloys, titanium, natural or synthetic rubber and ammonium nitrate.

Agricultural, Forestry Products – includes fibres, grains, hay, trees, felled timber, grass, fertilizer and manure.

Miscellaneous – includes coal, garbage, trash, oily rags and artificial trees.

PROPERTY CLASSIFICATION – the principal use or occupancy of the building.

Assembly – property for the gathering of persons for civic, political, travel, religious, social, educational or recreational purposes. Includes theatres, amusement or recreation places, schools, colleges, universities, churches, social or sport clubs, libraries and museums, eating establishments and passenger terminals.

Institutional – property for medical treatment, or care of persons suffering from illness, disease or infirmity, for the care of infants, convalescents or aged persons and for penal or corrective purposes. Includes prisons, jails, reformatories, homes for the aged, children's hospitals, hospitals and clinics.

Residential – property in which sleeping accommodation is provided for normal residential purposes. Includes one and two family dwellings, apartments, rooming or boarding houses, hotels, motels, dormitories and mobile homes.

Business and Personal Service – property for conducting business. Includes offices, personal services such as hairdressing and data processing or storage facilities.

Mercantile – property used for the display and sale of merchandise. Includes food and beverage sales, textile and clothing sales, furniture and appliance sales, books and specialty sales, recreational and hobby supply sales, repair shops, laundries, vehicle and boat sales and department or variety stores.

Industrial Manufacturing Properties – property where raw materials are transformed into new products and where the component parts of manufactured products are assembled. Includes chemical, petroleum, paint and plastic manufacturing; wood, furniture, and paper manufacturing; metal product and electrical equipment manufacturing; food processing; beverage, tobacco, soap and margarine manufacturing; textile manufacturing; footwear and wearing apparel manufacturing; and vehicle and related equipment manufacturing.

Storage Properties – property used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals. Includes agricultural product storage; textile, fibre and clothing storage; processed food and beverage storage; flammable liquids, gas and petroleum products storage; wood, furniture, and paper products storage; chemical, paint and plastic storage; metal products, machinery, and electrical appliance storage and vehicle storage.

Special Property - Transportation Equipment – mainly outdoor property and transport equipment. Includes outdoor property, piers, buildings under construction or demolition, watercraft, rail transport vehicles, ground transport vehicles, aircraft and other special equipment.

Miscellaneous – includes laboratories, farm facilities, outbuildings, utilities, glass and pottery manufacturing, mining, communications and nucleonics.

SOURCE OF IGNITION – the actual equipment, device or object which brings about ignition.

Cooking Equipment – includes stove, range, food warming appliance, deep fat fryer, broiler and portable cooking unit.

Heating Equipment – includes central heating unit, service water heater, space heater, fireplace, chimney, flue pipe and steam or hot water pipe.

Appliance and Equipment – includes dryer, air conditioning equipment, pressing iron and incinerator.

Smoker's Material and "Open" Flames – cigarettes, pipes, cigars and/or matches, lighters when used in conjunction with smokering. Includes matches and lighters not associated with smoker's material, candles, cutting torches, welding equipment and hot ashes.

Exposure – includes exposure from an attached or detached structure, lumber yard, open fire, forest, grass and brush.

Miscellaneous – includes internal combustion engine, heat treatment equipment, industrial oven, tar pot, fireworks, conveyors, commercial and industrial machinery and chemical reactions.

Directory

HEAD OFFICE:
Room 701
10808 - 99 Avenue
Edmonton, Alberta
T5K 0G2
Phone: 427-8392

REGIONAL OFFICES AT:

CALGARY:
Deerfoot Junction
Tower 3
1212 - 31 Avenue, N.E.
T2E 7S8
Phone: 297-5759

EDMONTON:
Room 303
Princeton Place
10339 - 124 Street
T5N 3W1
Phone: 427-4853

LETHBRIDGE:
Room 360
Provincial Building
200 - 5 Avenue S.
T1J 4C7
Phone: 381-5483

ALBERTA FIRE TRAINING SCHOOL:
Drawer 388
VERMILION, Alberta
T0B 4M0
Phone: 853-8147

PEACE RIVER:
Bag 900, Box 24
9621 - 96 Avenue
T0H 2X0
Phone: 624-6163

RED DEER:
2nd Floor
Provincial Building
4920 - 51 Street
T4N 6K8
Phone: 340-5157

ST. PAUL:
Room 407
Provincial Building
5025 - 49 Avenue
T0A 3A0
Phone: 645-6349

VERMILION:
Drawer 388
T0B 4M0
Phone: 853-8142